



Aykan Ankara

Software Developer

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1983 (42 Age)

Ankara , Etimesgut

Private Info

Gender

Male

National Status

Republic of Turkey

Military

Completed

Driving Licence

B,A2

Resume Summary

Working and focusing on Cloud Computing through Java and Spring Framework (also Spring Boot) coverages significant part of my current career. In detail, I have also been working on synchronous (RESTful API), asynchronous (non-blocking I/O, batch, socket) programming, Video Streaming frameworks, Microprocessors/controllers, SoCs. I have had a great experience and significant Engineering skills such as algorithm development, software security, research and development philosophy, form, fit and function perspective, and state of art design principles.

Experience

Java Software Engineer

AGESA Hayat ve Emeklilik A.Ş. | January 2023 - August 2025

İstanbul(Asya) , Permanent / Full-time

Service Sector, Insurance Department

The joint investment company of Sabancı Holding and the Belgian-French insurance company AGEAS plc. AgeSA is one of Turkey's leading private pension and life insurance company.

Responsibilities:

- Full Stack Software development for web-based insurance applications.
- Leverage the infrastructure and design solutions.
- R&D and PoCs to determine the technologies and/or products that can help us find the most effective solutions.

Technology Stack:

- Spring Framework for dependency injection, transaction management, AOP (logging and validation), RDBMS and NoSQL(MongoDB) to database access, Spring Data, Spring Cloud, batch and scheduling (Spring Batch).
- Hibernate as JPA implementation.
- ReactJS, Redux, VueJS, Pinia as JavaScript libraries/frameworks for building user interfaces.
- Webpack and Vite for bundling.
- AOT research with GraalVM Native Image.
- Redhat EAP 7.0 as app. server.
- Apache Camel as enterprise integration patterns implementation.
- Redhat Openshift orchestrating tool for mgmnt of containerized apps.
- Redhat SSO for authentication, authorization and user federation using OAuth 2.0 and OpenID-connect.
- Apiman for API Mngmnt and API GW functions.
- Swagger for API Documentation
- Logback and Graylog for logging and log management
- Jenkins for CI/CD, JIRA for Task Management Tool.
- Git as software versioning system (tool: Bitbucket).

- Gradle and Maven for dependency management
- Apache Kafka, AMQ and MongoDB for message streaming/brokering and data.
- Using the concepts of the Agile Manifesto.

Java Software Engineer

CyanGate | July 2022 - January 2023

Ankara , Permanent / Full-time

Informatics Sector, IT Department

Responsibilities:

- Web Drive Storage Application Development through Java and JavaScript Programming Languages.
- Backend Services development activities on AWS.
- Used concepts of Agile manifesto. (tools: JIRA, Confluence)
- Git as software versioning system. (tool: Bitbucket)

Technology Stack:

• Java, JAX-RS, JAX-WS, JavaScript, Apex, Salesforce Lightning, HTML5, CSS, Bash, Batch, Spring Boot, Spring MVC, Spring Security, Spring Cloud Authentication Server, Amazon S3, Amazon SQS, Amazon SNS, Amazon Elastic Beanstalk, Amazon DynamoDB, OAuth 2.0, Salesforce

Tools:

- JIRA, Confluence, IntelliJ IDEA, Maven, VSCode, Postman.
- BitBucket

Build Tools:

- Maven

Software Developer

Msspektral | December 2021 - July 2022

Ankara , Permanent / Full-time

Informatics Sector, Research and Development (R&D) Department

Responsibilities:

- Java Web Development issue for Truck x-ray through Spring Boot framework. (with Spring Web, Data JPA, Lombok, Pstgresql, Zipkin, Eureka Server, RabbitMQ, Redis tools. w Java 11/17)
- Pylon Camera image capturing application through Qt framework with C++17. (OpenCV library for image processing issues.)
- Particular detection software development with C++11 programming language. (w Redis Docker Official Image)
- Truck x-ray detection software full-stack development (through C++17, typescript programming languages. Pstgresql and Docker container)

Tech. Stack:

- Computer Vision (OpenCV).
- Service Oriented Architecture (SOAP), MicroServices and RESTful API.

- RDBMS (PostgreSQL, MySQL)
- Front-end technologies TypeScript, JavaScript, HTML5 and CSS3.
- Git as Software Versioning System.
- JIRA for Task Management Tool.

Software Developer

Mavinci Yazılım | April 2021 - December 2021

Ankara , Permanent / Full-time

Informatics Sector, Research and Development (R&D) Department

- Gstreamer multimedia framework video stream encoding/decoding. (C++11 programming language, Ubuntu Linux 20.04)
- Websocket and TCP Socket programming (C++11 programming language, Qt framework, Ubuntu Linux 20.04)

Socket connection establishment between C++11 server and NodeJs server (NodeJs, C++11, Ubuntu Linux 20.04)

- WebRTC connection establishment between C++ server and Gin Web Framework (C++11, Go programming languages, Ubuntu Linux 20.04)

MVC design with C++11, NodeJs, PostgreSQL and React.

- Drogon, Cutelyst, Treefrog web frameworks implementations on QT framework. (C++11, Ubuntu Linux 20.04)
- Native build issues for Qt, Gstreamer on Linux (Ubuntu 20.04) and Apple Silicon (M1 Arm64) MacOS (Big Sur) platforms.
- JIRA for Task Management Tool (w/ Agile Methodologies)
- Git as Software Versioning System.

Embedded Software Engineer

Baylan Ölçü Aletleri | January 2020 - April 2021

Ankara , Permanent / Full-time

Energy Sector, Research and Development (R&D) Department

- Power Line Communication (PLC) Yitran Y-Net implementation with Yitran IT900 PLC Modem and two Fudan FM33G04X ARM-Cortex-M0 MCUs (MASTER and SLAVE boards) in the same cover.
- On Semi AX5243 Ultra-Low Power Narrow-Band Sub GHz (27 - 1050 MHz) RF Transceiver implementation at 435.3 MHz and 870.0MHz (individually) with Fudan FM33G04X ARM-Cortex-M0 MCU.
- Pre - Payment (Tokenization) Standard Transfer Specification (STS) protocol implementation (STS, IEC 60255 - 41, - 51) with Fudan FM33G04X ARM-Cortex-M0 MCU (via SEGGER Embedded Studio and J-Link Debugger)
- Wireless MBus (W-MBus) Protocol (i.a.w. EN13757 W-MBus Standard) implementation with AX5243 Ultra-Low Power Narrow-Band Sub GHz (27 - 1050 MHz) RF Transceiver and Fudan FM33G04X ARM-Cortex-M0 MCU (via SEGGER Embedded Studio and J-Link Debugger).
- Power Line Communication (PLC) Y-Net Protocol implementation with Yitran IT900 Modem and Fudan FM33G04X ARM-Cortex-M0 MCU (via SEGGER Embedded Studio and J-Link Debugger).

- Power Line Communication (PLC) G3-ASL Protocol implementation with (i.a.w. T-REC-G.9903 - G3-PLC Network Standard) Adesto SM2400 EVK and Fudan FM33G04X ARM-Cortex-M0 MCU (via SEGGER Embedded Studio and J-Link Debugger).
- Electricity meter system software development on Fudan FM33G04X ARM-Cortex-M0 MCU (via Keil IDE and J-Link Debugger) (C Language) (with Vango V9261F Single Phase Energy Metering AFE (UART), I2C EEPROM). Also with LPUART-based Optic and UART-based RS485 com. interface).
- Electricity meter system software development on Texas MSP430 MCU (via CCS IDE) (C Language). Also with UART-based Optic and RS485 com. interface).

Embedded Software Engineer

EXENTECH | September 2019 - December 2019

Ankara , Seasonal / Project-based

Defense Industry Sector, Research and Development (R&D) Department

- JPEG data write implementation in SDHC Memory Card via STM32F429ZIT6.
- Telit LE910-EU V2 4G Module implementation via STM32F429ZIT6.
- FMC (SRAM), DMA configuration via STM32F429ZIT6.
- USB-OTG-FS virtual comm. port, mass storage implementations via STM32F429ZIT6.
- SD Card read/write implementation via using STM32F429ZIT6.
- OV7670, OV2640 Digital Camera implementations via STM32F429ZIT6 (C Programming Language) with DCMI interface and DMA.
- E01-ML01DP5 (nRF24L01) Wireless Transceiver Module implementation via STM32F103C8 (C Programming Language)
- PIR-Motion Sensor Wake-Up implementation via STM32F429ZIT6 (C Programming Language)
- QVGA (320x240) LCD-TFT implementation via STM32F429ZIT6 (C Programming Language) using Software SPI and I2C.

Embedded Systems Engineer

UBS Airport Systems | November 2018 - September 2019

Ankara , Permanent / Full-time

Aviation Sector, Research and Development (R&D) Department

- PID current control loop implementation in order to control thyristor phase angle on Constant Current Regulator (CCR) ECU (via C) (via Cypress PsoC 5 MCU)
- LTC3869 Step Down DC/DC Controllers implementation on PowerLED Driven PCB Board.
- GUI Application for Airport Ground Lighting Fixtures. (via Qt C++ cross platform and PyQt).
- Wurth "MagI³C-LDHM LED Step Down High Current Module" implementation on LED Driven PCB Board.
- Embedded software implementation to Constant Current Airport Ground Lighting (AGL) intranet - LED Driven PCB Board via ST Microelectronics (STM8S003F3P6 MCU) (C Programming Language) (SPI, UART communication.)

- HV9910B "Universal High-Brightness LED Driver" embedded software implementation via AVR Microcontroller (Attiny841 MCU). (PWM Configuration) (C Programming Language) (SPI, UART communication.)
- HV9910B, CS5463, Attiny841 MCU Constant Current Airport Ground Lighting (AGL) intranet, capable of power diversity (45W to 200W), LED Driven PCB Board Design. (EAGLE and KiCAD PCB Design Softwares)
- AVR Microcontrollers Configuration with SPI Communication. (CS5460A - Cirrus Single Phase Bidirectional Power Energy IC Control, MAX5483 - 10 -bit Non-volatile, Linear-Taper Digital Potentiometer Control) (C Programming Language) (SPI, UART communication.)
- Vibration and Sea Level Sensor Control with ESP8266 NodeMCU (via Arduino Toolchain).
- PWM - based DC Servomotor control via STM32Fxxx Microcontrollers.
- RTOS applications on STM32F407G MCU.
- Cypress Microcontrollers Configuration with SPI, UART, I2C communication blocks.
- Driver Board PCB Design via EAGLE, DipTrace and KiCAD PCB Design Softwares.
- LiDAR Monitoring implementation studies for Aircraft Visual Docking Guidance System (VDGS) (Real Time Object Recognition) (via Python, Blensor Toolchain). (tensorflow, numpy, keras, pandas, scipy, lxml, pillow libraries) (in progress)

Embedded Systems Engineer

ATRS | June 2018 - September 2018

Ankara , Permanent / Full-time

Railway Transportation Sector, Research and Development (R&D) Department

- Air Traffic Control Radar System Design and Software Development (FMCW Radar Design) with Texas Instrument AWR1642 (via CCS IDE).
- C Programming Language MCU Configuration (I2C, UART, CAN, SPI) via STM32F7XX (ARM Cortex M3), STM32F4XX.
- Embedded Software Programming for Signaling System CPU MCUs (STM32F1XX) (via Keil, IAR, Atollic True Studio Tools)
- PCB Design for Signaling System CPU Circuit, Track Circuit, Driver Cards (via Altium Designer 17, AutoDesk EAGLE tools)

Signalling and Communication Engineer

Yıldırım Beyazıt Üniversitesi | September 2016 - May 2018

Ankara , Seasonal / Project-based

Universities Sector, Academic Department

- MIMO-OFDM based Communication Systems theoretical channel estimation and improvement via MATLAB and Simulink Environments. (Yıldırım Beyazıt University Communication Lab.)
- MIMO-OFDM System implementation via Universal Software Radio Peripheral (USRP) Transceiver.
- MIMO-OFDM System implementation via LabVIEW environment.

System Design Engineer

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Tai - Turkish Aerospace Ind. | May 2008 - September 2016

Ankara , Permanent / Full-time

Aviation Sector, Research and Development (R&D) Department

- ATA-23 Communication System Design Engineer on Training Aircrafts, UAVs, Fighters (6 years).
- ATA-24 Electrical Power System Design Engineer on Training Aircrafts (4 years).
- Acceptance Phase - Maintenance & Operation - Based Design Changes Implementation on inservice ATAK Helicopter platforms (2 years)
- Performance-Based Design Changes Implementation on ATAK Helicopter platform (2 years)

System Test Engineer

Vestel Dijital | October 2007 - February 2008

Manisa , Permanent / Full-time

Electric& Electronic Sector, Research and Development (R&D) Department

- Reliability tests on digital system configurations.
- Software tests (bug tracking) on system software.
- Functional tests of digital media product prototypes.

Intern Engineer

Yakamoz Yazılım | October 2004 - December 2004

Ankara , Part Time

Informatics Sector, Information Technology Department

- Web design.
- Maintainability activities on customer web sites.

Intern Engineer

Bosch Isıtma Ürünleri San. Ve Tic. A.Ş. | July 2004 - September 2004

Manisa , Permanent / Full-time

Heating, air conditioning, air conditioner Sector, Research and Development (R&D) Department

- Vibration - sense analog test bench design for water heater and combi boiler systems
- Reliability tests on ECU and Sensors of water heater and combi boiler systems.

Education

Ankara Yıldırım Beyazıt University

Faculty of Engineering and Natural Sciences, Electrical Electronics Engineering, English, Formal Education | January 2015 - January 2017

Graduation Degree: 3.79/4

Master

Communication Theory and Electronic Warfare Master Program

Hacettepe University

Engineering Faculty, Electrical Electronics Engineering, English, Formal Education | September 2001 - December 2006

Graduation Degree: 2.2/4

Bachelor

Bursa Science School / Manisa High Schl.

Science, Science High School | June 2001

High School

Languages

English (Advanced), German (Basic), Spanish (Basic), Italian (Beginner)

Skills

C, C++, Java, Pascal, XML, Matlab, Python

Certificate / Seminars and Courses

Problem Solving and Decision Making

BALTAS | May 2012 - May 2012

Competent Person, Prepotent Group

BALTAS | April 2012 - April 2012

Communication Basis and Empathy Improvement

BALTAS | February 2012 - February 2012

CE501-Object Oriented Programming With Using JAVA

Atilim University Master Of Science Lesson | September 2011 - January 2012

Air Defence Systems

SATEM | November 2010 - November 2010

JAVA

Ankara DORUK Eğitim Kurumları | April 2010 - July 2010

CATIA V5 Design

TAI | June 2010 - June 2010

System an Network Administration

Bilgeadam | December 2008 - October 2009

Unigraphics Technical Visualization

TAI | September 2008 - September 2008

Cisco CCNA Course

Ege University International Computation Institute | February 2008 - May 2008

Projects

Several Projects

March 2013

- Pattern Recognition via neural network methodology.
- MIMO-OFDM based Communication Systems theoretical channel estimation and improvement. (Yıldırım Beyazıt University Communication Lab.)
- Sea Surface environment Channel Simulation
- Support Vector Machine (SVM) and Cyclic Spectrum (CS) comparison research

Hobbies and Interests

Folkdance,basketball,picnics,parties,entertainmnts
(Chicago Turkish Festival "Tuana Folk Dance" 25-31 May 2009, Festival De
Martigues "Tuana Folk Dance" 15 July - 4 August 2010)