Furkan Çalık

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Personal Profile

Passionate Computer Scientist adept at creating innovative techniques and making them robust and scalable. Zealous about software engineering and with 2+ years of experience specializing in software development and maintenance, cloud programming, design patterns, algorithms, full-stack web development, and most programming languages.

Education

Bilkent University
Ankara, Turkey

Bachelor's Degree - Computer Science
May 2018 - May 2024

- Compherensive Schoolarship
- High Honor Student
- GPA: 3.5

Work Experience

TaleWorlds
Ankara, Turkey

Internship
January 2023 - August 2023

- Took on the role of developer and maintainer for an upcoming game.
- Contributed to development using Unity, C, Python, and Unreal Engine.
- Created a plugin in Unreal Engine enabling developers to design subpart structures within the game.
- Developed a Python script for modifying part specifications in the game.
- **Technical Skills:** Unity, C, Python, C++, Unreal Engine.
- **Soft Skills:** Time management, Communication, Logical Thinking, Refactoring, Team Collaboration, Scrum.

Siemens
Ankara, Turkey

Part-time Working Student as Software Developer, internship
January 2022 - July 2024

- Took on the development and maintainer role in SIGUARD DSA.
- Contributed to developing the web application (Angular) and backend (Spring boot microservices) of SIGUARD DSA by implementing related pages with Angular and dockerized Spring boot services.
- Refactored and maintained the installer of SIGUARD DSA written in Python.
- Implemented and maintained a full-stack application with Spring Boot from scratch among team members, enabling the team to analyze and manage property files in Java and automatically arrange them on GitLab.
- **Technical Skills:** Java, JBoss, Maven, JPA, Hibernate, J2EE, JHipster, Angular.js, Spring Boot, Docker, Micro-architecture, Rabbit MQ, Monitor tools (Grafana, Prometheus, Zipkin), Linux, Network Systems, Python, Agile, Scrum
- **Soft Skills:** Time management, Communication, Logical Thinking, Refactoring, Team Collaboration.

Aselsan
Ankara, Turkey

Project Data Tagging Assistant
March 2022 - May 2022

- Worked with the "Aselsan Natural Language Processing Team" on a project to detect and analyze misinformation in selected tweets related to specific news topics.
- Assisted in tagging relevant Twitter tweets with corresponding labels to create a dataset for the project.

Figensoft
Ankara, Turkey

Full Stack Developer Intern (Voluntary)
July 2021 - Sep 2020

- Built a full-stack application with a team of five that schedule the entrance and exit data of the workers in a construction area with the solution of QR codes.
- Focused more on back-end (ASP.net), front-end (Bootstrap) design and implementation.
- **Technical Skills:** HTML, JavaScript, CSS, .Net(ASP.NET), Bootstrap, Node.js, Vue.js, Git.
- **Soft Skills:** Time Management, Communication, Logical Thinking, Working independently and with a team.

Projects

Yoldas (Companion) - Final Project
Ankara, Turkey

Bilkent University
Sept 2023 - May 2024

- Recognized with the **Social Impact Award** at the 2024 CS Fair for outstanding contributions to accessibility technology.
- Led the development of **Yoldas**, a mobile application designed to assist visually impaired individuals in navigating daily tasks.
- Integrated WebRTC for seamless real-time video communication and deployed the application using Docker on a Digital Ocean droplet, ensuring scalability and reliability.
- **Technologies:** FastAPI, Flutter, Docker, WebRTC, Firebase.

Pokemon Adoption Website - AWS Project

Ankara, Turkey

Bilkent University

Jan 2024 - May 2024

- Developed a fully AWS-native website enabling users to log in and adopt virtual Pokemon characters.
- Leveraged AWS services including CloudFront, Cognito, Lambda, ECS, and DynamoDB to build and deploy the application.
- **Technologies:** AWS (CloudFront, Cognito, Lambda, ECS, DynamoDB, and more).

Skin Cancer Diagnosis - Machine Learning Project

Ankara, Turkey

Bilkent University

Sept 2023 - Jan 2024

- Developed a machine learning model for diagnosing skin cancer, comparing SVM, Transfer Learning, Random Forest, and Vision Transformers.
- Focused on evaluating model performance and optimizing diagnostic accuracy.
- **Technologies:** Python, PyTorch, Colab, various machine learning models.

Eventmania - Database-Driven Application

Ankara, Turkey

Bilkent University

Jan 2023 - May 2023

- Led a team to develop a full-stack event management application addressing the lack of local meeting platforms in Ankara.
- Focused on backend development with Spring Boot and integrated the system with PostgreSQL for database management.
- **Technologies:** Spring Boot, PostgreSQL, AWS, React.

Skills

Programming	Java, Python, C/C++, HTML/CSS, JavaScript, Data Structure, Design Patterns, Object Oriented Programming, SQL
Miscellaneous	Linux, Shell (Bash), Microsoft Office, Git, AWS, Digital Oceon
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation, Communication, Leadership.

Achievements

2019	**Overall 7/9,** International English Language Testing System (IELTS)	*Ankara*
2018	**759th Place,** Turkey National University Entrance Exam	*Ankara*
2021	**Fifth Place,** OBSS Hackathon	*Ankara*
2024	**Social Impact Award,** Bilkent CS Fair 2024	*Ankara*

Languages

English	Professional proficiency
Turkish	Native proficiency
French	Beginner (Learning) Proficiency