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Yağız Can Aslan

GitHub: <https://github.com/can-aslan>

Webpage: <https://yagizcanaslan.com/about>

Hacker Rank: <https://www.hackerrank.com/yagizcanaslan0>

E-mail: can.aslan@ug.bilkent.edu.tr / yagizcanaslan0@gmail.com / can@yagizcanaslan.com

LinkedIn: <https://www.linkedin.com/in/yagizcanaslan>

Telephone: +90 530 797 5432

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EDUCATION

2020 – Expected 2024

Bilkent University, Faculty of Engineering, Ankara, Turkey

B.S. in Computer Engineering

Total CGPA: 3.18 / 4.00, Highest CGPA: 3.70 / 4.00 (2022-2023 Fall)

Courses Taken

Algorithms and Programming I & II, Fundamental Structures of Computer Science I & II, Digital Design, Computer Organization, Programming Languages, Object-Oriented Software Engineering, Discrete Mathematics, Linear Algebra & Differential Equations, Probability & Statistics for Engineers, Operating Systems, Database Systems, Software Engineering Project Management, Algorithms, Computer Graphics, Automata Theory and Formal Languages, Application Lifecycle Management, Cloud Computing, Introduction to Machine Learning

2016 – 2020

METU Development Foundation High School, Ankara, Turkey

Science / Mathematics Student

EXPERIENCE

Jan 2023 – Present

Yapı Kredi Teknoloji

Software Engineer (Remote)

- Selected from amongst **more than 300 applicants** to work Part-Time while studying.
- Designed comprehensive search functionality for a project using **ReactJS** with **TypeScript** and **Redux**.
- Developed multiple endpoints for various **Java Spring Boot** APIs with **Microservices** architecture.
- Fixed multiple bugs based on logs reported to the **ELK Stack** and various other channels.
- Engineered **270+ unit tests (~9,000 lines)** with more than **80% coverage** for **~20,000 lines of code**.
- Utilized **VMware Horizon** for connecting to the development machine.
- Took part in various organizational training programs.
- Participated in the team's **Scrum** workflow using **Jira**, **Confluence** and **Bitbucket**.

Highlights: Microservices, Domain Driven Design, H2, Hibernate, SAP PowerDesigner, Swagger, SQL, Java, JavaScript, ReactJS, TypeScript, Spring Boot, ELK Stack, Unit/Integration Testing, Mockito, JUnit, Jira, Git, Bitbucket, Confluence, Bamboo, IntelliJ IDEA, VS Code, VMware Horizon, Microsoft Teams, Scrum.

Jan 2021 – Aug 2023

Fiverr

Freelance Developer (Remote)

- Designed and developed 20+ custom mods tailored to the specific needs of customers with combined **22,500+ unique subscribers** and **76,500+ unique visitors** in the **Steam Workshop**.
- Negotiated with customers to understand project requirements and to make recommendations.
- Automated large data interpretation and file generation for mods using **Java**.
- Designed, developed and debugged custom servers with plugins and maps for customers.
- Designed custom artwork and preview videos for projects using **Paint.net**, **Camtasia Studio 8** and **DaVinci Resolve 17**.

Highlights: Java, Visual Studio Code, Paint.net, Camtasia Studio 8, DaVinci Resolve 17.

Aug 2022 – Sep 2022

MobileAction

Frontend & Backend Engineer Intern (Ankara, Turkey)

- Engineered multiple **Java Spring Boot API** endpoints and utilized **RabbitMQ** for message queues.
- Developed **integration** and **unit tests** for backend code using **JUnit** and **Mockito**.
- Used **Postman** to test **web crawling** for API calls and other endpoints.
- Used **VueJS**, **Tailwind** and **Ant Design** to build a keyword generator and density calculator website.
- Built an internal bot for tracking and storing daily user data to solve a crucial bug using **NodeJS**.
- Took part in 2 **Scrum** sprints (daily meetings, sprint retrospective, sprint planning).

Highlights: Scrum, Gradle, Java, Spring Boot, PostgreSQL, RabbitMQ, Postman, Docker, NodeJS, Heroku, Webpack, VueJS, HTML, CSS, PostCSS, Tailwind, Ant Design, ESLint, GitHub, Jira, Confluence, Slack.

July 2022 – Aug 2022

Vodafone

DevOps Engineer Intern via Kafein Technology Solutions (Remote)

- Collaborated with the **Digital Finance DevOps** team behind Vodafone Pay.
- Attended daily **Scrum** meetings and observed the progress & methodologies of Vodafone Pay's team.
- Engineered a **Java Spring Boot API** and utilized **Docker** along with **Oracle Database**.
- Used **ElasticSearch**, **Logstash** and **Kibana** to parse, store and visualize data.
- Used **Postman** to test **Java Spring Boot API** and **ELK Stack** functionalities.

Highlights: Scrum, Maven, Java, Spring Boot, Oracle Database, Oracle SQL Developer, ElasticSearch, Logstash, Kibana, Postman, GitHub, Docker, Microservices, Jira.

PROJECTS

Oct 2023 – Present

Linguist AI Language Teaching Mobile Application (Senior Project)

(Link: <https://linguistai.app>)

- Organized and tailored the **Scrum** workflow, **Jira** and **Confluence** to a team of 5 people.
- Conducted **extensive requirement analysis** based on the market trends and project domain.
- Corresponded with various industry experts in **language teaching** and **artificial intelligence** fields.
- Developed extensive **UML Use Case**, **State**, **Activity** and **Class diagrams**.
- Developed comprehensive **Entity-Relationship Diagrams** to represent the baseline of our database.
- Streamlined a comprehensive **CI/CD** pipeline by utilizing **GitHub Actions**.
- Engineering a complex, scalable and custom-built **microservice architecture** by using **Java Spring Boot**, **Docker**, **JPA**, **Hibernate** and **MySQL** as the core technologies.
- Designing a responsive **User Interface** using **Figma**, **React Native** and **Typescript**.
- Utilizing the **API Gateway microservice design pattern** for handling communication between the clients and our backend servers.

Highlights: Java Spring Boot, React Native, Typescript, UML Diagrams, Entity-Relationship Diagram, Requirement Analysis, Design Patterns, Docker, JPA, Hibernate, MySQL, API Gateway, Figma, Draw.io, Scrum, Jira, Confluence, GitHub, GitHub Actions.

Dec 2023

Realistic 3D Rendering on Parametric Breather Surfaces (Course Project)

(Link: <https://breather-cs465.web.app>)

- Engineered a **realistic 3D renderer** for parametric breather surfaces using **WebGL** and **JavaScript**.
- Developed custom **Phong** and **Gouraud shaders** with **Environment Mapping** by utilizing **GLSL**.
- Streamlined a basic **CI/CD** pipeline by utilizing **GitHub Actions** for **Firebase** hosting.

Highlights: WebGL, GLSL, Vertex & Fragment Shaders, 3D Modeling, Phong, Gouraud, Environment Mapping, Parametric Surfaces, JavaScript, npm, Firebase, GitHub, GitHub Actions.

Nov 2023

Octop 3D Animation Renderer (Course Project)

(Link: <https://octop-cs465.web.app>)

- Developed a hierarchical model based 3D animation renderer using **WebGL** and **JavaScript**.
- Engineered custom **Vertex** and **Fragment** shaders for **Phong shading** by utilizing **GLSL**.
- Streamlined a basic **CI/CD** pipeline by utilizing **GitHub Actions**.
- Hosted the final version of the assignment using **Firebase**.

Highlights: WebGL, GLSL, Hierarchical 3D Modeling, JavaScript, npm, Firebase, GitHub, GitHub Actions.

Oct 2023

TriPaint Online 2D Paint Application (Course Project)

(Link: <https://tripaint-cs465.web.app>)

- Engineered a comprehensive triangle-based 2D paint application using **WebGL** and **JavaScript**.
- Optimized basic **Vertex** and **Fragment** shaders by utilizing **GLSL**.
- Streamlined a basic **CI/CD** pipeline by utilizing **GitHub Actions**.
- Hosted the final version of the assignment using **Firebase**.

Highlights: WebGL, GLSL, JavaScript, npm, Firebase, GitHub, GitHub Actions.

Feb 2023 – June 2023

BilCommute Software Engineering Project Management (Course Project)

- Prepared detailed **Project Charter** and **Project Management Plan** documents based on **PMI** guidelines.
- Identified **organizational risks** and determined appropriate **response strategies**.
- Detailed necessary **work activities** in a comprehensive **Work Breakdown Structure**.
- Decided on project **deliverables**, **timeline**, **goals**, and forecasted the project **budget**.
- Streamlined a **Gantt Chart** schedule based on the **Work Breakdown Structure** and project **deliverables**.

Highlights: Project Charter, Project Management Plan, PMI, Organizational Risks, Deliverables, Gantt Chart, Work Activities, Work Breakdown Structure, Jira, Confluence, Google Docs.

Jan 2023 – June 2023

BilBilet Online Travel Manager (Course Project)

(Link: <https://github.com/can-aslan/BilBilet>)

- Organized and tailored the **Scrum** workflow, **Jira** and **Confluence** to a team of 5 people.
- Conducted **extensive requirement analysis** based on the project prompt and domain.
- Developed a detailed **Entity-Relationship Diagram** to form the baseline of our database representation.
- Engineered a **comprehensive Java Spring Boot** architecture with 80+ endpoints.
- Formulated multiple **complex SQL queries** based on project functionality & requirements.
- Designed and modified multiple **UI mockups** using **Figma**.
- Developed multiple screens based on **Figma** using **TypeScript**, **ReactJS** and **Mantine**.
- Streamlined **user experience** by optimizing and polishing **UI interactions**.

Highlights: Java, JavaScript, ReactJS, TypeScript, Swagger, Java Spring Boot, SQL, MySQL, Figma, Requirement Analysis, Entity-Relationship Diagram, Relational Algebra, Jira, Confluence, GitHub, Draw.io.

Oct 2022 – Jan 2023

Erasmus Application Manager (Course Project)

(Link: <https://github.com/can-aslan/Erasmus-Application-Manager>)

- Introduced, explained and organized the **Scrum** workflow, **Jira** and **Confluence** to a team of 5 people.
- Conducted **extensive requirement analysis**, investigated **design patterns** and engineered numerous **UML Diagrams** using **Visual Paradigm** for designing the project structure.
- Implemented a comprehensive backend API using **Java Spring Boot** and **PostgreSQL**.
- Assisted the development of our website with **TypeScript**, **ReactJS** and **Mantine**.

Highlights: UML Diagrams, Visual Paradigm, Java, Spring Boot, TypeScript, ReactJS, Mantine, PostgreSQL, GitHub, Scrum, Jira, Confluence, Slack, Requirement Analysis, Design Patterns, Figma.

Oct 2022

IoT Programming Language (Course Project)

(Link: <https://github.com/can-aslan/CS315-Key-Programming-Language>)

- Designed a context free grammar using the **Backus-Naur Form (BNF) Notation** for a programming language for IoT devices with a team of 3 people.
- Implemented a lexical analyzer using **Lex** and a parser using **Yacc**.
- Tested the lexical analyzer and the parser in a **Linux** environment using **FileZilla** and **SSH**.
- Utilized **Emacs** in the **Linux** environment for editing test files.

Highlights: Lex, Yacc, GitHub, Linux, FileZilla, SSH, Emacs.

June 2022 – July 2022

CoordinatesOnDeath Minecraft Plugin (Hobby Project)

(Link: <https://www.curseforge.com/minecraft/bukkit-plugins/coordinatesondeath>)

- Developed a Minecraft Plugin for the Bukkit/Spigot and Paper platforms based on player needs with **Java**.
- Used the **Spigot API** to automatically check if the local version of the plugin is up-to-date.
- Achieved **500+ downloads** within the first 2 months of the release (**~800 downloads** as of August 2023).

Highlights: Java, SpigotAPI.

June 2022 – Aug 2022

Lightsaber Discord Bot (Hobby Project)

(Link: <https://github.com/can-aslan/LightsaberBot-Reborn>)

- Designed a custom Discord bot using **NodeJS**, **DiscordJS** and **npm** for personal use.
- Hosted 24/7 on **Replit** and version-controlled using **Git**.
- Used **currency-converter-lt** library to access real-time currency exchange rates.
- Used **vatsim-data-handler** library to access real-time flight information on the VATSIM network.

Highlights: NodeJS, Replit, GitHub.

Dec 2021

Programmable Processor (Course Project)

- Designed and developed a simple 12-bit programmable processor in **SystemVerilog** to be used in the **Basys 3 Artix-7 FPGA** for a course project.
- Implemented load, store, add constant, subtract and jump instructions to the programmable processor.
- Designed and wrote testbenches for the programmable processor in **SystemVerilog**.

Highlights: SystemVerilog, Xilinx Vivado.

Feb – May 2021

QuestYard Educative Multiplayer Game (Course Project)

(Link: <https://quest-yard.herokuapp.com/>)

- Designed and developed an educative multiplayer desktop game with a team of five people using **Java** and **MVC patterns**.
- Designed and optimized custom UI elements for the desktop application and the website using **Paint.net**, **JavaFX**, **HTML** and **CSS**.
- Edited & implemented custom sound effects using **Audacity** and **Camtasia Studio 8**.
- Developed the networking & multiplayer aspect of the project using **Java Sockets** and port forwarding.
- Managed offline databases developed with **SQLite** to store and manage offline player profiles, achievements, questions & fun facts.
- Assisted remote **MySQL** database development for storing questions, fun facts, online player profiles and achievements.

Highlights: Java, JavaFX, Java Sockets, SQLite, MySQL, HTML, CSS, Visual Studio Code, Paint.net, Camtasia Studio 8, Audacity.

Nov 2019 – July 2020

Platformer Game Prototype (Hobby Project)

(Link: <https://github.com/can-aslan/Jumper>)

- Developed a singleplayer and local multiplayer platformer game prototype with simple AI opponents and mouse-controlled weapons in **GameMaker Studio 2 Desktop**.
- Animated and created player, opponent, weapon and level sprites using **Paint.net**.
- Created sound effects using **SFXR**, **BFXR** and **Audacity**.

Highlights: GameMaker Studio 2 Desktop, Paint.net, SFXR, BFXR, Audacity.

SKILLS

Programming Languages & Technologies

- Java, C++, C, JavaScript, Python, TypeScript, C#, SQL, NodeJS, VueJS, ReactJS, MATLAB, MIPS Assembly, SystemVerilog, HTML, CSS, Git, GitHub Actions
- Java Spring Boot, JPA, Hibernate, Mockito, JUnit, Java Swing, JavaFX, Java Sockets, Python Flask
- Redux, Ant Design, Mantine, Tailwind
- Oracle Database, SQLite, MySQL, H2, Oracle SQL Developer, PostgreSQL
- Elasticsearch, Logstash, Kibana, RabbitMQ
- Docker, Postman, FileZilla, OpenSSH, VMware Horizon
- Emacs, Lex, Yacc
- Linux (Ubuntu)
- Firebase, Replit
- WebGL, GLSL

Software

- Atlassian: Jira, Confluence, BitBucket, Bamboo
- IDEs and Simulators: Visual Studio Code, IntelliJ IDEA, WebStorm, DataGrip, MARS MIPS Simulator, Xilinx Vivado
- Game Engines: Unity Game Engine, GameMaker Studio 2 Desktop
- Sound Design: Audacity, SFXR, BFXR, CapCut, DaVinci Resolve 17, Camtasia Studio 8
- Video Editing: CapCut, DaVinci Resolve 17, Camtasia Studio 8
- Image Editing: Paint.net, GIMP 2
- Microsoft Office: Word, PowerPoint, Excel
- Modelling Tools & UML Diagrams: SAP PowerDesigner, Visual Paradigm, Draw.io

Languages

- Turkish (Native), English (Bilingual/CEFR C2), Spanish (Beginner), Italian (Beginner)

ACHIEVEMENTS & CERTIFICATES

Programming

- Skillssoft, [Java Spring Cloud: Introduction to Microservices](#), 05 Dec 2023
- Skillssoft, [Clean Coding Techniques: Introduction to SOLID](#), 07 Aug 2023
- Skillssoft, [Assessing Organizational Risks](#), 17 May 2023
- Skillssoft, [Introduction to UI/UX](#), 28 Mar 2023
- HackerRank, [JavaScript \(Intermediate\) Certificate](#), 06 Sep 2022
- LinkedIn, [NodeJS Skill Assessment](#) (Top 30% of 388 Thousand participants), 19 Aug 2022
- HackerRank, [JavaScript \(Basic\) Certificate](#), 13 June 2022
- HackerRank, [Java \(Basic\) Certificate](#), 05 June 2022
- LinkedIn, [JavaScript Skill Assessment](#) (Top 15% of 2.2 Million participants), 05 June 2022
- LinkedIn, [C Skill Assessment](#) (Top 30% of 1.6 Million participants), 01 June 2022
- LinkedIn, [C++ Skill Assessment](#) (Top 30% of 1.4 Million participants), 09 Feb 2022

Academic

- IELTS Academic 8.5/9.0, *Dec 2023*
- Bilkent University High Honor Certificates, *2022-2023 Fall & 2022-2023 Spring*
- Bilkent University Honor Certificates, *2020-2021 Fall & 2021-2022 Fall*
- Bilkent Proficiency in Academic English Exam (PAE-II B), Grade: 141.25/150, *08 Sep 2020*
- Placed 5880th among 2.3 Million participants in the National University Entrance Exam in the Science/Mathematics category, *Aug 2020*
- Placed 840th among 130 Thousand participants in the National University Entrance Exam in the English Language category, *Aug 2020*

Sports

- Turkish Chess Federation, Chess License, from *Jan 2010 to Jan 2018*
- Selected to the Basketball team of İklim College Summer School, *2012*
- Achieved green belt in Karate (Demir Çelik Spor Kulübü, Ankara), *2010*

Other

- Apple, [Apple Search Ads Certificate](#), *23 Aug 2022*
- Fiverr Skill Tests, English Language, *14 Apr 2022*
- Fiverr Skill Tests, Fiverr English Test, *14 Apr 2022*
- Fiverr Skill Tests, Customer Service, *04 July 2021*
- Fiverr Skill Tests, Social Media Marketing, *12 Jan 2021*
- Turkish Virtual Airlines, Senior First Officer, *25 Jan 2023*
- Turkish Virtual Airlines, [First Officer Pilot Certificate](#) (F/O Checkride: 98/100), *27 Oct 2019*

EXTRACURRICULAR ACTIVITIES

- Founder and President of Bilkent Virtual Aviation Club, since *May 2023*;
 - Led 11 founding members to form the first ever university-level virtual aviation club in Turkey.
 - Led the formation and operations of the “Engineering”, “Organization”, “Design” and “Social Media & Marketing” teams with multiple members and differing agendas.
 - Coordinated with school officials for official documents and event marketing.
 - Coordinated the preparation and distribution of event posters for marketing purposes.
 - Oversaw the election process for the executive board and the first general assembly of the club.
 - Handled communication between the executive board and the club members.
- Core Team Member of Google Developer Students Club Bilkent University since *Aug 2023*
- Member of Google Developer Students Club Bilkent University since *Jan 2023*
- Attended Bilkent University Squash courses, *Sep 2022-Jan 2023*
- Took part in METU High School (Ankara) Graduate’s Panel to aid senior students with preparing for the University Entrance Exam, *Feb 2021*
- Welcomed, hosted and assisted attendee professionals from various fields for the METU High School (Ankara) Career Promotion Fair, *Apr 2019*
- Participated in MCMUN’17 as a member of the Press team (preparing daily newspapers, interviewing participants and organizers), *Dec 2017*
- Organized, coordinated and took part in 3 fundraising fairs for METU High School (Ankara) History Club between *2017-2019*
- Took part in a ~7 day training camp in Space Camp Turkey (İzmir), *Jul 2014*
- Took part in a ~7 day training camp in Space Camp Turkey (İzmir) and introduced & presented the camp to my school for the organization of recurring summer trips, *Aug 2013*
- Volunteer for TEMA (Turkish Foundation for Combating Soil Erosion) since *Jan 2011*

HOBBIES & INTERESTS

- Space, aviation, astronomy, exploring nature, everything related to technology, football, squash, game design, attention to detail, content creation, building & repairing computers.