D. Yiğit Yılmaz

Software Engineer

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How to pronounce my name
/d-yigit-yilmaz
/yvesyil
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The quote "What I cannot create, I do not understand" by Richard Feynman really resonates with me because this is my approach for learning new concepts in life. If I find myself trying to understand how a system works, I start by thinking how I would design it and build a small version of it.

Education

Technological University of the Shannon (TUS) 2021 – 2023
B.Sc Honours in Honours Software Engineering with Cloud Computing *Athlone, Ireland*

- Grade: First Class, Courses: Distributed Systems, Databases, Service Oriented Architecture, Security

Bilkent University 2019 – 2021 (Transferred to TUS)
B.Sc in Information Systems and Technologies *Ankara, Turkey*

- Grade: 3.2/4.0, Courses: Object Oriented Analysis and Design, Computer Algorithms and Data Structures, Computer Networks Cisco CCNA, Web Technologies

Experience

Johnson Controls January 2022 – July 2022
Software Developer Intern *Cork, Ireland*

- Collaborated on the design and development of an enterprise-grade chatbot using Node.js and Azure Bot Framework SDK, hosted on Microsoft Azure Cloud
- Implemented the core web service of the chatbot that communicated with both internal and external REST API microservices
- Utilized natural language processing AI models available on Azure Cognitive Services to enhance the chatbot's ability to understand and respond to user input
- Worked within an agile development process utilizing Azure DevOps and Git version control

Adastec June 2021 – August 2021
Software Engineer Intern *Istanbul, Turkey*

- Worked in the perception part of the autonomous driving software for commercial vehicles.
- Designed and developed a service using C++ to detect the position and the state (opened or closed) of access barriers using 3D space LIDAR sensor data.
- Utilized pub/sub communication with other services to ensure the raw LIDAR sensor data was compressed, noiseless, and semanticized.

Personal Projects

Claw.js /claw-js

- A linear algebra library for JavaScript that's written in both C and JavaScript that uses OpenCL to compute matrices on the GPU. It's aimed to be used for Deep Learning applications as it can reduce training time.

Introspection

/introspection

- A fullstack compiler explorer web application tool that converts higher-level source code (e.g. C) to lower level representation (x86 assembly) using React with TypeScript on the frontend and a microservice architecture in the backend using Java, Go, and TypeScript.

Neural Network from Scratch

/neural-net-api

- A Neural network completely written from scratch using TypeScript with matrix and differential operations are written by me, designed to recognize hand-written digits. Also serves as a REST API that can be interacted with by sending JSON over the wire.

Skills

Programming Languages JavaScript, TypeScript, Python, Go, C, C++, Java, PHP, HTML, CSS, SQL, JSON, YAML

Tools & Technologies Git, Node.js, MongoDB, MySQL, Docker, Microsoft Azure, Azure DevOps, Linux, CMake, Coreutils & binutils

Frameworks & Libraries React, Express.js, Flask, Pandas, PyTorch, OpenGL, OpenCL, WebGL

Natural Languages Turkish (Native), English (Advanced), Japanese (Lower Intermediate)

Hobbies

Music

- Playing Guitar and Piano
- Music Composition and Theory

Reading

- Technical Blogs
- Materials related to STEM

History

- Art of Europe and Japan
- Rock and Classical Music

Arts

- Shodo Calligraphy

Sports

- Rowing