Gökberk Yaltıraklı

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Education

- **University of Sheffield** — Sept 2016 - June 2020
  BEng Software Engineering with a Year In Industry (2:1) — *Sheffield, UK*
  - Modules include "Algorithms and Data Structures", "Robotics", "Devices and Networks", "Machines and Intelligence", "Advanced Programming Techniques", "3D Graphics", "Text Processing", "Speech Processing" and "Internet of Things"

Work Experience

- **Software and Big Data Engineer** — August 2020 - Present
  P.I. Works — *Istanbul, Turkey*
  - Worked in the Integration team using C#/.NET Core and Python
  - Worked on ETL pipelines between Oracle, Hive, SFTP, MSSQL and Clickhouse
  - Processed and integrated geospatial data with PostGIS and Clickhouse

- **Software Engineer** — October 2018 - September 2019
  Viagogo — *Limerick, Ireland*
  - Worked in the Customer Service and Fulfilment Engineering team
  - Developed integrations with ticket provider APIs
  - Created a browser extension that serves as the VoIP client for the Customer Service agents
  - Developed a blob storage service with multiple backends in order to minimize document retrieval times and storage costs
  - Created an internal tool that enables Customer Service agents to perform bulk actions on related cases. This project resulted in efficiency increases of ~30%.

- **Software Engineer** — July 2018 - October 2018
  Viagogo — *London, UK*
  - Worked in the Payments team using the C# / SQL Server stack
  - Worked on integrations with payment APIs, fraud prevention APIs, and internal microservices
  - Wrote parsers and data import tools for Payment Service Provider file formats

- **Web Designer** — August 2017 - June 2018
  Websell Masters Ltd. — *Sheffield, UK*

  Worked with a team of 5 people on numerous company and customer websites using PHP/MySQL on the backend and HTML5 on the frontend

Activities and Experience

- **Global Engineering Challenge (GEC)** — January 2017
  The University of Sheffield

  Worked with a team of 6 engineering students from various disciplines on a project to design a real-time network to monitor the air quality and pollution in Cameroon.

- **Engineering: You're Hired** — January 2018
  The University of Sheffield

  Worked with 5 other engineers from various disciplines on a project proposal for a water desalination plant in Spain.

Technical Skills

- **Programming languages:** Python, Rust, C, C++, Javascript, C#, .NET Core, Java, PHP, Haskell, Ruby

- **Data management:** Relational databases (SQLite, PostgreSQL, MSSQL), OLAP databases (Clickhouse), Key-Value stores (Redis, S3) and Document stores (MongoDB, DynamoDB)

- **Embedded development:** Some experience with Espressif (ESP32, ESP8266) and Atmel (ATmega328P) microcontrollers

- **Reverse Engineering:** Some experience in reverse engineering the network protocols of games, mobile applications and malware in Wireshark

- **Digital signal processing:** Developed Software Defined Radio modulators for various digital and analog signals

- **Tools:** Linux, Git, Vim, Emacs, Bash, LaTeX, BeautifulSoup, Selenium, Visual Studio, SQL Server Management Studio, Airflow

Additional Skills

- **Language Skills:** Fluent in English (IELTS 8.0), Turkish (Native Language), German (TELC B2 Certificate)

Honours and Achievements

- **Honour Roll / Faculty of Excellence** 2016
  The University of Sheffield *Sheffield, UK*
  - Awarded to me because of exceptional academic performance and grades during my study.

Research Interests

I am interested in conducting research about evolutionary algorithms, genetic programming and machine learning using genetic algorithms. Another research interest of mine is distributed network protocols.

Open Source Projects

I have created and worked on a large number of open-source projects. I have both contributed to other projects, and had other people contribute to my projects. Most of those can be found on my Github. Below are some relevant projects that I created.

- **Slowloris** A security testing tool written in Python in order to check if a server is vulnerable to *the Slowloris attack*

- **JVM implementation** An implementation of the Java Virtual Machine in Python.

- **SMTP Server** An email server written in Rust to become familiar with the SMTP protocol. Successfully interfaces with gmail and other email services.

References

References available upon request