

SEYMUR KAFKAS

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EDUCATION

Istanbul Technical University – Istanbul, Turkey

B.Sc. in Computer Engineering (Cumulative GPA: 3.70/4.00)

Sep 2018 – Aug 2022

- Courses: Artificial Intelligence, Robotics, Database Systems, Parallel and Distributed Systems, Software Engineering, Computer Architecture, Object-Oriented Programming, Data Structures, Analysis of Algorithms (I&II), Microprocessor Systems, Operating Systems, Formal Languages and Automata and 8 additional courses

B.Sc. in Electrical Engineering (Cumulative GPA: 3.73/4.00)

Sep 2017 – Aug 2022

- Courses: Signals and Systems, Control Systems, Electronics, Circuit and System Analysis, Digital Circuits, Engineering Mathematics, Electric Drive Systems, Power Electronic Circuits and 50 additional courses

Gresham's School – Norfolk, UK

Sep 2014 – Jun 2016

International Baccalaureate (IB) Diploma Programme

- Overall grade of 38/45 with 666 at Higher Level
- Subjects studied include Mathematics, Physics, Economics, English A: Language & Literature, German B and History

PROJECTS

Internify

Full-Stack Developer & Project Lead

- Created a social media platform connecting college students seeking work placement programmes with employers
- Developed a React-based web app with Next.js. Built a serverless backend using Cloud Functions and Cloud Firestore; authenticated all users through Firebase Auth. Used Git for version control and Jest for unit and integration tests. Deployed the project on the Vercel platform

EXPERIENCE

Proficient AI – Remote

Aug 2022 – Current

Software Engineering Intern

- Worked with Python, Express, Flask, Spacy, SQLite, OpenAI API, Beautiful Soup and Hugging Face transformers
- Developed a resume-parsing microservice. Used a state-of-the-art language model to extract the details into a JSON as per a pre-defined schema. Set up service-to-service authentication, communication and deployed the parser on Cloud Run. Achieved almost human-level accuracy (exceeding 97%); the parser is deployed to production
- Created an application form filler (Microservice and Chrome Extension). Designed a backend that parses the HTML and sends applicant-specific autofill commands to the Chrome extension. Used procedural, data-driven and NLP methods to answer form questions. The service is deployed on Cloud Run, and has completed 1000+ applications

Artificial Intelligence & Robotics Lab at ITU – Istanbul, Turkey

Sep 2021 – Aug 2022

Software Engineering Intern (Robotics)

- Worked on control of the Baxter Robot and the Allegro Hand. Used CoppeliaSim and Drake for contact simulation, model-based optimization and system design. Used PyTorch extensively as the deep learning framework. Experimented with Reinforcement Learning algorithms to create robust, model-free control policies

P.I. Works – Istanbul, Turkey

Jul 2021 – Oct 2021

Software and Big Data Engineering Intern

- Used C++, C#, and technologies such as SQLite and Oracle DB. Developed high performance data converters for proprietary raster file formats. Used multi-threaded work-queues for parallelizable, compute-bound conversion logic
- The converters achieved up to 10X speedup relative to prior versions, and are deployed to production on 137 servers
- Set up a monitoring system using Zabbix across a network of 60+ CentOS servers. The central server gathered metrics such as CPU usage, disk usage, and log files from all managed servers. Declared rule-based triggers that reported anomalies in the system as events

SKILLS

Programming Languages: Python, Typescript/Javascript, C++/C, SQL, Assembly (Proficient), C# (Intermediate)

Software: Postman, CoppeliaSim, Simulink, MATLAB, AutoCAD (Intermediate)

Technologies: React.js, Node.js, Express.js, Flask, Firebase, Cloud Run, SQLAlchemy, SQLite, PostgreSQL, HTML5/CSS3, Pytest, Jest, Git, PyTorch, TensorFlow, OpenCV, Robot Operating System, Linux, Docker

Languages: English (full professional proficiency), Turkish, Azerbaijani (native), German (limited working proficiency)

Interests: Classical AI, Machine Learning, Natural Language Processing, Robotics, Mathematical Optimization, Modern C++, Computer Architecture, Mathematics, Philosophy of Science and Mathematics

ACTIVITIES & CLUBS

Gresham's Mathematics Team

- Represented the school as the captain of the mathematics team in inter-school challenges

HONORS & AWARDS

- Dean's High Honor List (5 semesters), Dean's Honor List (3 semesters), Academic Certificate of Excellence (2016),