Sinan Yumurtacı

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Education

Colby College   Waterville, ME
GPA: 4.02, Class Rank: 21, Presidential Scholar   September 2019 - May 2023
Bachelor of Arts; Major in Computer Science with a Minor in Economics

Experience

Google   **Mountain View, CA**
Software Engineering Intern   May 2022 - August 2022

Worked on a developer tool that validates billions of time-series statistics in the Data Commons knowledge graph.

- Improved data validation and processing speed 30% by analyzing flame graphs of runtime performance and engineering optimizations in Java
- Eliminated an inefficiency causing delays of 2-3 days for 5% of all additions to the knowledge graph by implementing an alternative method of data verification that allows engineers to unblock themselves
- Designed and deployed an automated continuous testing process, catching 8 silent bugs within 3 weeks and introducing an additional layer of safety against future regressions
- Brainstormed and implemented an algorithmic improvement from exponential to linear time complexity, reducing computational cost of scaling business logic for ranking data sources 50-75%
- Kick-started an initiative to support categorical variables in the knowledge graph by redesigning data types and business logic to allow future flexibility

98point6   **Seattle, WA**
Software Development Engineer Intern   June 2021 - August 2021
- Saved 120 physicians-hours (equivalent to $10,000) yearly by designing and implementing a recommender ML system, using Python, Scikit-learn to apply transfer learning
- Analyzed the viability of 2 product initiatives and 3 design proposals with data-backed reports

Computer Science Department, Colby College   **Waterville, ME**
Research Assistant   August 2019 - January 2022
- Expanded the automation for running computational experiments, saving 50+ hours in unproductive & routine tasks
- Developed an extensive MATLAB simulation of how humans perceive direction during movement
- Co-authored the paper "Modeling Physiological Sources of Heading Bias from Optic Flow" published in the peer-reviewed scientific journal eNeuro

Hall Staff, Colby College   **Waterville, ME**
Community Advisor   August 2020 - June 2021
- Successfully piloted a residential experience program, doubling the amount of applications within a year
- Co-lead a dormitory of 84 students by organizing events, supporting residents, and mediating conflicts

Projects

Esports Teammate Finder Website   **duobul.net**
PHP, MySQL, JavaScript, HTML/CSS
- Wrote all front-end and back-end code, teaching myself full-stack web development with the LAMP stack
- Achieved 1st place ranking above competitors on Google for many relevant and popular search terms with targeted SEO, bringing in 1000s of new organic users every month for 4 years and counting

Real-time Multiplayer Strategy Board Game Website   **strate.gg**
Python, Javascript, React, MobX, Jest, pytest, Docker
- Implemented real-time online gameplay of the abstract strategy board game Amazons using React and MobX for a composable front-end and Python Flask for back-end

Technical Skills

Proficient – Python, Java, JavaScript, React, Jest, Flask, MATLAB, vim
Familiar   – Go, MobX, Typescript, Google Cloud Platform, JUnit, pytest, Docker, SQL, PHP