Sinan Yumurtacı

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EDUCATION

Colby College   Waterville, ME
GPA: 4.00, 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 programming an alternative method of data verification, allowing 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 training a recommender ML system, using Python, scikit-learn for prototyping model architectures, and Keras for transfer learning
- Analyzed 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 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 paper "Modeling Physiological Sources of Heading Bias from Optic Flow" published in peer-reviewed scientific journal eNeuro

Hall Staff, Colby College   **Waterville, ME**
Community Advisor   August 2020 - June 2021

- Successfully piloted a residential experience program, doubling applications over previous year
- Co-led 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, self-taught full-stack web development with the LAMP stack in the process
- 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**
JavaScript, React, MobX, Jest, Python, pytest, Redis, Docker, Bash

- Implementing real-time strategy game server and website using JavaScript, React, MobX, Python, Flask, and Redis
- Automated CI/CD pipeline with testing, linting, and deployment using Docker, Docker Compose, Bash, and Makefile

TECHNICAL SKILLS

Languages – Python, JavaScript, HTML/CSS, Java, Go, MATLAB, Shell Scripting, SQL
Frameworks – React, Jest, Flask, pytest, MobX
Developer Tools – Git, Docker, Docker Compose, Google Cloud Platform, Jupyter Notebook
Libraries – NumPy, pandas, Matplotlib
Other – Google Earth Engine, Unity 3D, Processing, vim