

Sinan Yumurtaci

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Education

Colby College

GPA: 4.00, Class Rank: 21, Presidential Scholar
Bachelor of Arts; Major in Computer Science with a Minor in Economics

Waterville, ME
September 2019 - May 2023

Experience

Google

Software Engineering Intern

Mountain View, CA
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

Software Development Engineer Intern

Seattle, WA
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 for prototyping model architectures, and Keras for transfer learning
- Analyzed the viability of 2 product initiatives and 3 design proposals with data-backed reports

Computer Science Department, Colby College

Research Assistant

Waterville, ME
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

Community Advisor

Waterville, ME
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

PHP, MySQL, JavaScript, HTML/CSS

duobul.net

- 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

JavaScript, React, MobX, Jest, Python, pytest, Redis, Docker, Bash

strate.gg

- 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, React, HTML/CSS, Java, Go, MATLAB, SQL

Frameworks – React, Flask, MATLAB

Developer Tools – Git, Docker, Docker Compose, Google Cloud Platform, Unity 3D

Libraries – Jest, pytest, NumPy, pandas, Matplotlib