

# Sinan Yumurtaci

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## Education

### Colby College

GPA: 4.02, Presidential Scholar, ranked top 5% in my class  
Bachelor of Arts; Major in Computer Science with a Minor in Economics

Waterville, ME  
September 2019 - May 2023

## Technical Skills

- **Proficient:** Python, Java, MATLAB
- **Familiar:** Go, React, MobX, JavaScript & Typescript, SQL, PHP

## Experience

### Software Engineering Intern

Google LLC

Mountain View, CA

May 2022 - August 2022

- Delivered vital improvements to a business-critical data validation tool responsible for all additions to the Data Commons knowledge graph of over 2 trillion triples
  - Independently identified and fixed bottlenecks using flame graphs, improving speed by 30%
  - Extended functionality to support categorical variables and augmented data quality checks
  - Implemented a local cache option for validating external references, cutting down lead time for new datasets by 2-3 days
- Automated daily testing of projects, identifying 8 issues across 5 projects within 3 weeks
- Improved the speed of ranking data sources from exponential  $O(n^2)$  to linear  $O(n)$  time complexity

### Software Development Engineer Intern

98point6 Inc.

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 to apply transfer learning
- Analyzed the viability of 2 product initiatives and 3 design proposals with data-backed reports

### Computer Science Research Assistant

Computer Science Department, Colby College

Waterville, ME

August 2019 - Present

- Developed an extensive computer simulation of how humans perceive direction during movement from scratch in MATLAB, and lead design decisions extensibility of the code base
- Expanded the automation for running experiments, saving 50+ hours in unproductive & routine tasks
- Co-authored a paper published in the eNeuro journal (IF: 3.3)

### Economics Research Assistant

Economics Department, Colby College

Waterville, ME

January 2020 - August 2021

- Efficiently merged and processed data at the scale of 100s of GBs across three datasets with decades of satellite measurements using Google Earth Engine

### Community Advisor

Hall Staff, Colby College

Waterville, ME

August 2020 - June 2021

- Piloted a residential experience program successfully, resulting in a two-fold increase in the number the applications YoY thanks to word of mouth of authentic leadership and engaging events.
- 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

Strate.gg

Python, React, MobX

- 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
- Currently developing a persistent account system and match history features using a MongoDB database