

Samir Rashid

☎ (650) 762-9756 | ✉ s3rashid@ucsd.edu | 🏠 godsped.com | 🌐 Samir-Rashid | in samirrashid

Education

University of California San Diego

San Diego, CA

B.S. MATH-COMPUTER SCIENCE, CLASSICAL STUDIES MINOR | GPA: 3.97

Expected Graduation: June 2024

- **Relevant Coursework:** Deep Learning (*in progress*), Algorithms (*in progress*), Cryptography (*in progress*), Statistical NLP, Advanced Data Structures, Theory of Computation, Graph Theory, Statistical Methods, Systems Programming, Linear Algebra, Discrete Math, Differential Equations

Experience

Twitter

Remote

QUALITY ENGINEERING INTERN

September - December 2021

- Used Java to aggregate test results in real time, enabling analytics on historical test results.
- Designed and created integration for testing framework that catalogues automated test results for manual testers.

Crownpeak

Remote

SOFTWARE ENGINEERING INTERN

June - August 2021

- Improved revenue visibility by analyzing billions of customer records in AWS **Redshift** and presenting findings to CFO.
- Automated CDN cache invalidation of deactivated trackers and worked on Google Ads deployment.
- Reduced support load by writing documentation, simplifying UI, and adding self-serve tooltips to **ASP.NET** webapp.

Mercury Health

San Diego, CA

FULLSTACK INTERN

April - June 2021

- Leveraged AWS Lambda to write serverless backend implementing **AWS SNS** SMS notifications.
- Notification system used to alert on outage, reducing hardware downtime resolution from **52 to 8 hours**.
- Streamlined Stripe payment user flow and improved user configurable settings.

Projects

Triton Unmanned Aerial Systems

Python

PROGRAMMER

Dec 2020 - Current

- Collaborating with team to design, build, and fly an unmanned aerial vehicle (UAV). **Placed 5th place internationally.**
- Building a 3D real time dynamic path planning system in Python using RRT*.
- Created robust testing framework to simulate and visualize generated paths.

ACM Attendance Visualizer 🗳

React

FULLSTACK DEVELOPER

Sept-Dec 2020

- Used by Association for Computing Machinery to display statistics on event attendance, draw trend insights, and make future predictions.
- Developed online dashboard for analyzing the organization's event attendance data, using **D3, Express, React, and PostgreSQL**.
- Defined schema, implemented protected backend data processing routes, and documented APIs using Postman 🗳.

Community Coworking Server

Docker, Linux, Bash

DEVOPS LEAD

2019 - Current

- Founded and maintain public server for video chat, file storage, messaging, and email.
- Manage networking, automate Linux server's **Docker** services, maintain wiki, resolve Jira tickets, and overhauled backup processes.

Triton Schedule Scraper 🗳

Python, Tkinter, Selenium WebDriver

- Python script uses WebDriver and automatically scrapes UCSD course schedule to create an iCal file.
- Created native GUI for the program using Python and Tkinter.

Oct 2020

Music Training App 🗳

React

- React webapp that helps users learn rhythm and tone with their MIDI keyboard. Created levels that test and teach music topics.
- Designed **modular architecture** allowing for many levels using templates with on-screen piano and live note feedback.
- Designed and implemented UI, used GitHub Flow best practices, and remotely collaborated using ClickUp with Agile principles.

Jun-Sept 2020

DIY Projects

- Latin poetry reader (prosody) — Python script uses Text-to-Speech API and morphs audio to match dactylic hexameter rhythm.
- Ancient Greek keyboard firmware mod — custom QMK firmware that natively supports Ancient Greek and its accents.
- Researched and built: keyboard, FPV quadcopter, analog turntable — using household parts, trackball (WIP) — design CAD and electronics for ergonomic mouse, air filter — 3D printed and CAded to combat indoor wildfire smoke.

Awards

Xerox Award for Innovation and Information Technology

2019

- Nominated by committee of teachers from a pool of **500+ students** and **awarded \$40,000** scholarship by Univ. of Rochester.
- Chosen for a strong interest in innovation, excellence in new technologies, and for leading classmates to new solutions.

Skills

Languages Python, Java, C, C++, JavaScript, TypeScript, Bash, L^AT_EX, MATLAB, R, Google Apps Script

Software PyTorch, React, SQL, AWS, Docker, Linux, Unity, Fusion 360, JUnit, Flask, pytest, ASP.NET, GDB