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, Cognitive Science minor | GPA: 3.97   *Expected Graduation: June 2024*
- **Relevant Coursework:** Graph Theory (*in progress*), Modern Algebra (*in progress*), Statistical Methods, Systems Programming, Data Structures & OO Design, Proofs, Linear Algebra, Discrete Math, Differential Equations, Calculus

Experience

Twitter (Incoming)   *Remote*
Incoming Twitter Test Intern   *September - December 2021*
- Will work on testing automation and infrastructure.

Crownpeak   *Remote*
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 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 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).
- Using Python to generate RRT* dynamic flight paths in response to obstacles for a fixed wing plane.

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.   *Oct 2020*
- Created native GUI for the program using Python and Tkinter.

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.   *Jun-Sept 2020*
- Designed and implemented UI, used GitHub Flow best practices, and remotely collaborated using ClickUp with Agile principles.

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, Node.js, jQuery, Bash, LaTeX, MATLAB, Google Apps Script

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