Samir Rashid

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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*
- TBD.

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.

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. *Jun-Sept 2020*
- 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.

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