Samir Rashid

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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

Computing for Social Good Lab at UCSD *San Diego, CA*
Student Researcher *August 2022 - Current*
- Researching social media discourse of mental burnout and problem gambling w.r.t. lockdowns. Processing large dataset and classifying text.
- Responsible for analyzing trends using **LDA topic analysis**, and experimenting with team applying natural language processing techniques.

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

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, LaTeX, MATLAB, R, Google Apps Script
Software PyTorch, React, SQL, AWS, Docker, Linux, Unity, Fusion 360, JUnit, Flask, pytest, ASP.NET, GDB