Samir Rashid

STUDENT AT UCSD

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Education

University of California San Diego   *San Diego, CA*

MATH-COMPUTER SCIENCE AND COGNITIVE SCIENCE, MAJOR GPA: 4.00   *2020-2024*

- **Relevant Coursework:** Linear Algebra, Discrete Math, Differential Equations, Proofs Intro (*in progress*), Datastructures & OO Design (*in progress*)
- **Extracurriculars:** Triton Robotics, Triton Unmanned Aerial Systems (UAS), Association for Computing Machinery (ACM)

Experience

Triton UAS   *San Diego, CA*

SIMULATION ENGINEER   *Dec 2020 - Current*

- Collaborating with team to design, build, and fly an unmanned aerial vehicle (UAV).
- Working on a **Unity plane sensor simulator** to test machine learning and computer vision models.

ACM Attendance Visualizer ⭘   *San Diego, CA*

FULLSTACK DEVELOPER   *Sept-Dec 2020*

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

Self-Employed   *Menlo Park, CA*

DEVOPS LEAD   *2019 - Current*

- Manage Linux server internal and external **Docker** services, maintain wiki, and overhauled backup processes.
- Automate tasks, handle updates, and resolve service tickets using Jira.

FRC Robotics Team 766 ⭘   *Menlo Park, CA*

PROGRAMMING TEAM LEAD   *2017 - 2020*

- Taught programming concepts to highschool students using Java while providing input for lesson plans and project ideas.
- Wrote tutorials and wiki, trained rookies, image processing and object recognition, **LiDAR based Monte-Carlo localization**.
- Implemented a pure pursuit based path following algorithm in Java that can perform **real-time arbitrary path following**. Using a map, pathfollowing will autocorrect to avoid obstacles. Also using our web GUI, the user can click on a point and have the robot drive there.

Projects

Schtoics ⭘   *Python, Tkinter, Selenium WebDriver*

GUI DEVELOPER   *Oct 2020*

- Python script automatically scrapes UCSD course schedule and create an iCal file.
- Designed and created GUI for the program using Python and Tkinter.

Music Training App ⭘   *React*

LEAD FRONTEND DEVELOPER   *Jun-Sept 2020*

- 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.

DIY Projects

- Latin poetry reader (prosody), ancient Greek keyboard firmware mod, handmade keyboard, quadcopter, analog turntable, trackball, course registration bot, 3D printed and CADed air filter.

Awards

Xerox Award for Innovation and Information Technology *2019*

- Awarded by University of Rochester for a strong interest in innovation and proven to be high achiever in this area.

Skills

Languages   Python, Java, C, JavaScript, Bash, LaTeX, MATLAB, Google Apps Script

Software   React, SQL, AWS, Docker, Linux, Unity, Fusion 360