

Faris Ashai

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Education

University of California San Diego

Expected Jun 2023

B.S. in Math and Computer Science, Minor in Interdisciplinary Computing in the Arts & Music

Major GPA: 3.86

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Programming Languages, Data Science, Statistics

Work

Software Engineering Intern

Jun 2022 - Sep 2022

Apple - Core Operating Systems

- Developed an intuitive & streamlined web application interface to manage power and performance metrics used by teams company-wide
- Built an end-to-end architecture to handle authentication and validation while allowing users to manage their own data with no downtime
- Wired complex client-side state and interactions seamlessly in **React** with secure functionality through a **MongoDB** and **Express** backend

Software Engineering Intern

Jun 2021 - Sep 2021

Deckard Technologies

San Diego, CA

- Built a user-friendly platform for local governments to track rental properties on a front-end development team using **React**
- Redesigned a **Redux** app state management system to dynamically handle server data and deploy 60% faster to new customers.
- Used **Postman** to define an API schema and static endpoints on a mock server for front-end development testing.

Instructional Assistant

Jun 2021 - Jun 2022

UCSD Computer Science & Engineering Department

La Jolla, CA

- As an Instructional Assistant for Data Structures and Intro to CS, held large class-wide discussion sessions and one-on-one lab hours for teaching sessions and explaining concepts on topics such as memory models, tree and graph algorithms, data structures, and syntax
- Successfully resolved 400+ technical issues on assignments by guiding students through core misconceptions and pair debugging sessions.

Leadership

Vice President of Development

May 2022 - Present

Association for Computing Machinery at UC San Diego

- Led a department of 20+ software engineers and designers within the largest computing student organization at UC San Diego, following industry standards and Agile development practices to maintain and develop new software tools for 3000+ students and affiliates
- Acted as a Technical Product Manager supervising timelines and requirements for 4 teams of software engineers and product designers using a tech stack primarily composed of design and development tools such as **Figma**, **TypeScript**, **React**, **Node.js**, **PostgreSQL**

Hackathon Director

Jun 2021 - May 2022

CS foreach - TritonHacks

- Directed a team of 32 across 5 committees to organize a high school hackathon promoting STEM education with 100+ participants
- Created beginner-friendly workshop content and starter kits to provide a foundation for students without CS experience
- Initiated sponsorship and outreach efforts to high schools, gaining support from 20+ local high schools and companies

Hackathons

MLH Top 50 Hacker 2022 (Link)

- Recognized as one of the 50 **most impactful hackers in the world** in a community of over 150,000 hackathon participants and organizers for my efforts to further encourage computer science education and provide opportunities to others

Quizlash (Link)

Feb 2022

SBHacks 2022: Best College Life Hack

- Developed Quizlash, an online study platform to generate questions from images of notes and have real-time friendly competitions
- Managed real-time game state in a **Next.js** frontend using **Socket.io** to display synchronized updates across player devices

ASAP Response (Link)

Apr 2021

BeachHacks: Most Innovative Hack

- Created ASAP Response, a platform for first responders to quickly communicate and assist vulnerable populations in disaster situations
- Designed and implemented a **React** front-end UI with **MapboxGL** and handled **REST APIs** to integrate with a back-end database and app
- Pitched our hackathon product and addressed a Q&A session for a team of senior engineers at Northrop Grumman

Skills

Languages JavaScript, TypeScript, Python, HTML, CSS, SASS/LESS, Java, C++, R, MATLAB

Technologies React, Redux, NextJS, Git, NodeJS, Express, MongoDB, Figma, PostgreSQL, Cypress, Jest, LaTeX