Faris Ashai

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Education

University of California, San Diego   *Sep 2019 - Jun 2023*
B.S. in Math-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
- Structured an end-to-end system handling authentication and validation while allowing users to handle their own data with zero 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 prepare 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, 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 14 individuals 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 1000+ 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 30 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 12 organizations and over 125 applicants

Hackathons

MLH Top 50 Hacker 2022 (Link)
- Recognized as one of the 50 most impactful hackers 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
- Created Quizlash, an online study platform to generate questions from handwritten & typed 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   TypeScript, JavaScript, Python, Java, C, C++, HTML, CSS, Sass/Less, R, MATLAB
Technologies React, Redux, NextJS, Git, NodeJS, Express, MongoDB, Postman, Cypress, Jest, GDB, Valgrind, LaTeX, JavaFX