

Mohamad Saleh

Software Engineer

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EDUCATION

California State University, Los Angeles

Master of Science in Computer Science

In Progress

Los Angeles, CA

University of California, Santa Cruz

Bachelor of Science in Computer Science

Spring 2023

Santa Cruz, CA

EXPERIENCE

Associate Backend Software Engineer

May 2024 – Sept 2024

Sunsab

Remote

- Engineered and managed a resilient HTTPS compliant .NET web server deployed in a cloud-based Docker container, ensuring 99.9% uptime and seamless scalability to current demand needs.
- Wrote Trigonometric-based algorithms to calculate well-bore drilling data, and visualized results on interactive 2D and 3D graphs using Three.js, enhancing data analysis and interpretation.
- Implemented data handling functions to translate thousands of lines of JSON data into downloadable Excel spreadsheets for user consumption.

Undergraduate Software Engineer Research Assistant

June 2021 – Sep 2022

University of California, Santa Cruz

Santa Cruz, CA

- Led the end-to-end development of a Next.js based Full-Stack Website, translating designs into fully functional pages and ensuring a seamless user experience from concept to deployment.
- Deployed and managed the application using a Docker container on a cloud-based Digital Ocean droplet, ensuring high reliability, seamless scalability, and minimal downtime.
- Conducted in-depth research on the impact of Distribution Shift and co-authored a published paper on machine-learning platforms, contributing valuable insights to the field.

Full-Stack Web Engineer Intern

June 2022 – Sep 2022

CodeDay

Remote

- Deployed a Full-Stack Next.js web application that expedites portfolio generation for users, using Figma designs.
- Optimized data handling efficiency through the implementation of a robust marshaling architecture, reducing data processing times.
- Authored comprehensive engineering design documents, streamlining the development process, leading to a reduction in development time.
- Elevated code quality and project collaboration by overseeing peer-reviewed pull requests, fostering a collaborative team environment.

Java Full-Stack Engineer Intern

June 2021 – Aug 2021

CodeDay

Remote

- Designed, implemented, and deployed a resume generator that quickly generates a professional resume.
- Engineered an automated email service to send PDF copies of resumes, ensuring user satisfaction.
- Followed RESTful API structure to support seamless communication between clients, servers, and a SQL database.

Mobile Full-Stack Application Intern

June 2020 – Aug 2020

Lyrlist

Remote

- Rewrote app to React Native, leading to successful redeployment on both IOS and Android.
- Deployed a new major feature driven by habits of 100+ daily active users from Firebase user analytics, increasing user engagement based on data.
- Performed extensive internal testing procedures, achieving full code coverage using Jest.

TECHNICAL SKILLS

Languages/Skills: C/C++, C#, Java, Python, .NET, HTML/CSS/JavaScript, Typescript, Parallel Programming, SQL, AWS, Cloud Architecture, Data Science, Machine Learning, Embedded programming, ROS 2

Frameworks: React, React-Native, Next.js, Node.js, .Net, JUnit, Jest, Material-UI

Developer Tools: Git, Docker, Bash, Unix Terminal, VS Code, Visual Studio, PyCharm, IntelliJ, Android Studio