

# Mohamad Saleh

## Software Engineer

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### EDUCATION

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#### 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

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#### 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 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 web application that expedites portfolio generation for users, based off 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

- Revamped the Android version to align with the latest Google standards, leading to successful redeployment.
- 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

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**Languages/Skills:** C/C++, C#, Java, Python, .NET, HTML/CSS/JavaScript, Typescript, Parallel Programming, SQL, AWS, Cloud Architecture, Matplotlib, NumPy, Pandas, TensorFlow

**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