Mohamad Saleh

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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

Machine Learning Researcher
San Jose Research Foundation

Sept 2024 – Current
Remote

- Developing a YOLO V8-based machine learning model to identify and label construction vehicles with 94% accuracy.
- Creating a Full stack application to process videos and label user input using the YOLO model.
- Writing Python scripts to automate data integrity checks, improving accuracy substantially.

Associate Backend Software Engineer
Sunsab

May 2024 – Sept 2024
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
University of California, Santa Cruz

June 2021 – Sep 2022
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
CodeDay Labs

June 2022 – Sep 2022
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.

Mobile Full-Stack Application Intern
Lyrist

June 2020 – Aug 2020
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