

AHMAD AFGHAN

San Jose, California — Authorized to Work, No Sponsorship Required

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[/AhmadCR7](https://github.com/AhmadCR7)

[Schedule a Call](#)

Education

San Francisco State University

Bachelor of Science in Computer Science

San Francisco, CA

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Software Development
- Computer Architecture

Experience

Qualitest - Client: Zeiss

October 2021 – May 2023

Software Engineer - Contract

Dublin, CA

- Led the design and development of software modules for embedded medical devices using C++, resulting in a 50% improvement in real-time performance, efficient memory utilization, and system reliability.
- Engineered 15+ APIs to enable seamless data flow between medical devices and Azure Blob Storage, as well as for data presentation on a web dashboard. This crucial infrastructure ensured reliable and secure transmission of patient data, enhancing both data integrity and accessibility for healthcare providers.
- Developed an automated logging mechanism that activates upon each scan capture, storing logs in JSON format. This implementation expedited the debugging process and system audits, resulting in a 25% in bug identification.
- Maintained and developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.
- Utilized Azure DevOps to provide a continuous integration service in order to automate the entire process of loading the latest build code and test files, running the tests, and generating a report of the results once per day.

UpWork, Inc

May 2017 – June 2021

Software Engineer - Freelancer

San Jose, CA

- Achieved a 45% increase in client revenue by developing dynamic websites and mobile applications. Utilized React, Angular, and Vue.js frameworks for client-side development and employed Node.js and Python for backend services.
- Spearheaded the design and development of innovative mobile applications across Android and iOS platforms. Created rich, intuitive user interfaces and optimized performance, leading to a 40% increase in user engagement.
- Implemented responsive design techniques and integrated third-party APIs and services to enhance functionality and improve user experience, resulting in an average of 30% increase in user engagement.

JPMorgan Chase & Co

June 2021 – August 2021

Software Engineer - Internship

Remote

- Collaborated in an Agile-structured team to design and develop a stock prediction application using React and Python.
- Improved a stock visualization web application by correcting erroneous calculations enhancing graphing accuracy.

Las Positas College

January 2016 – May 2018

Teacher Assistant - Computer Science Department

Livermore, CA

- Worked as TA to helped 100+ students to improve their programming abilities and achieve a deeper understanding of computer science concepts, Data Structure and Algorithm which resulted in a 30% increase in student grades & GPA.

Projects

SFSU Market | React.js, Express, MySQL, AWS

January 2021

- Led a team in design and development of an E-commerce web application where SFSU students can buy and sell items.
- Implemented authentication and authorization using JWT and bcrypt for secure login and registration, and integrated pay- ment processing with Stripe API to provide a seamless checkout experience.

Car Dealership Inventory Application | NextJS, Python, MySQL, Firebase

November 2020

- Developed a comprehensive inventory management system using a relational database, designed to meet the diverse needs of a large car dealership, including inventory tracking, pricing, and sales analytics.
- Engineered the front-end of the application using Next.js to provide an intuitive and responsive user interface.

Technical Skills

Programming Languages: Python, JavaScript, C++, HTML/CSS, SQL, Typescript, familiar with Go

Front-End Development: React, NextJS, Redux, Bootstrap, Angular, Vue.js

Back-ENd Development: Node.js, Express.js, MySQL, MongoDB, Django, RESTful API development, GraphQL

Technologies/Frameworks: AWS, Azure DevOps, GCP, Kubernetes, Linux, Docker, Git, Jenkins, Terraform, Jira

Automation/Testing: Selenium, WebdriverIO, Cypress, API Testing(Postman), Embedded System Testing, Jest, Mocha