OSCAR DIAZ VEGA

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EDUCATION

San Jose State University - Bachelors of Science, Computer Science, GPA 3.9   May 2024
Hartnell College - Associates Degree, Computer Science, GPA 4.0   December 2021

TECHNICAL SKILLS

Front End | React, React Native, Javascript, TypeScript, NodeJS, HTML, Bootstrap, CSS
Back End | Python, Java, C, C++, Flask, MySQL, AWS S3
Testing/Deployment | Docker, JUnit, Postman
Developer Tools | Git, GitHub, Agile, TDD

EXPERIENCE & PROJECTS

Software Engineer Intern | CTI-CodeDay   June 2021 - Aug 2022

Open-source Development   Javascript | Java
- Contributed to the CodeCheck open-source project, an anonymous auto grader for instructors.
- Mentored and supervised by Cay Horstmann, Professor at PFH Private Hochschule Göttingen.
- Implemented modern design patterns to engineer a file system that enables students to save, retrieve, and edit their work on command.

Full-Stack Software Engineer | Hoken Online Bank   Aug 2023 - Nov 2023

Front-End Development Lead, Back-End Architechture   React | TypeScript | Bootstrap | Flask | MySQL | Docker
- Developed responsive and intuitive user interfaces using React, ensuring seamless navigation and visually appealing design.
- Implemented robust back-end functionalities utilizing Flask and MySQL, enabling efficient data processing and management.
- Utilized Google Maps APIs, OpenCV & Tesseract for essential product features
- Containerized the entire application using Docker for efficient deployment and scalability.
- Mentored peer engineers on front-end development and best practices

Full-Stack Software Engineer | SongSnap   June 2023

Full Stack Web Application   React | TypeScript | Bootstrap | Express.js | MySQL | Docker
- Crafted a dynamic full-stack social media platform, centered around music sharing, with React, Express, and MySQL.
- Employed advanced Database normalization techniques to optimize data retrieval efficiency.
- Integrated Deezer's APIs for seamless music search and playback functionality.
- Leveraged AWS S3 for streamlined image storage and retrieval within the application.
- Orchestrated containerization of the entire application using Docker, enabling swift deployment and scalability.
- Strengthened proficiency in crafting precise SQL queries for retrieving and managing user data.

Panther Learning Lab CS Tutor | Hartnell College   Aug 2021 - Dec 2022

Tutor/Teacher Assistant Role   C++
- Collaborated with peers to address homework challenges and enhance weak areas.
- Assisted students in Calculus, programming, and computer architecture.
- Designed lesson plans and led group tutoring sessions.
- Adapted teaching methods to diverse learning styles, refining communication of complex concepts.
- Developed problem-solving and critical thinking skills in a collaborative learning setting.