

Nandhi Kanti Vinay Kumar

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EDUCATION

Master of Science, Computer Science | GPA: 3.8

San Francisco State University

Expected December 2024

San Francisco, CA

Bachelor of Technology, Computer Science & Engineering

Jawaharlal Nehru Technological University

August 2022

Hyderabad, India

SKILLS

Programming Languages: Java, C++, Python, JavaScript, TypeScript

Web Development: React.js, Redux, RESTful APIs, HTML5, CSS

Frameworks: Spring Boot, Next.js, Spring Security, Node.js

Testing & Quality Assurance: JUnit, Jest, Code review

Databases: MySQL, PostgreSQL, MongoDB, Supabase

OS & Version Control: Linux, Unix, Git

Cloud: Amazon Web Services, Google Cloud Platform

Mobile Development: Android (Java), React Native

WORK EXPERIENCE

Graduate Teaching Assistant

San Francisco State University

September 2023 - Present

San Francisco, CA

- Supporting 30+ students in mastering industry practices and object-oriented design, and in improving technical skills
- Organizing and led practice, summarizing concepts, and formulating questions, leading average class score of 90%
- Enhancing student learning objectives through collaborative assistance to small groups of 5

Research Assistant

San Francisco State University

June 2023 - August 2023

San Francisco, CA

- Integrated OpenAI Language Model APIs and developed methods in python to generate tailored content for each resume section with minimal input, resulting in score of 70+/100 on screening tools
- Implemented a benchmarking and scoring system to evaluate resume sections, resulting 20% improvement in content quality and relevancy. Led Frontend development using JavaScript, React, Tailwind CSS

Machine Learning Intern

Ram Innovative Info-tech

January 2022 - June 2022

Hyderabad, India

- Spearheaded multidisciplinary team of 3 to develop advanced driver fatigue detection system
- Implemented PERCLOS (Percentage of Eye Closure) Algorithm and Haar-Cascade Algorithm to accurately identify signs of driver drowsiness based on facial features and eye behavior; reducing fatigue-related accidents by 50%
- Collaborated closely with domain experts to define fatigue-related parameters and thresholds for reliable fatigue detection and alerting mechanism, achieving detection accuracy of over 90%

ACADEMIC PROJECTS

Pulse Events (Java, Spring Boot, Spring Security, Next.js, React, TypeScript, MongoDB, Tailwind CSS, Docker)

- Developed a full-stack web application for event management, enabling users to view events and express interest, and admins and moderators to create and edit events
- Built **RESTful APIs** with **Java** and **Spring Boot**, and React components with **server-side rendering** using Next.js and TypeScript, boosting page load speed by 40% while ensuring responsive and dynamic page handling
- Implemented secure **JWT** authentication with **Spring Security** for user authentication and role-based authorization for admins, users, and moderators, enhancing security and access control within the application
- Employed Docker containerization for seamless deployment and consistent performance across various environments

Picture Perfect (React.js, Django, Tailwind CSS, MySQL, AWS, Jest, Docker, Figma, YouTrack)

- Developed Agile-driven image-sharing tool with a team of 4 developers, added image editing and marketplace features, delivering a comprehensive user experience and demonstrating proficiency in responsive frontend development.
- Created **RESTful APIs** in python, hosted on AWS EC2, leveraged Amazon RDS for streamlined database management
- Utilized containerized docker images, facilitated bi-weekly SCRUM meetings, demonstrated Agile Project Management

CERTIFICATIONS

- Meta React Native | Data Structures and Algorithms Specialization | Java Excellence Certificate | Web Development