Ayush Pravin Yelne

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EDUCATION

University of Southern California   Los Angeles, CA
Masters of Science in Computer Science   *Aug. 2023 – May 2025*

University of Mumbai   Mumbai, India
Bachelor of Engineering in Information Technology   *Aug. 2019 – May 2023*

TECHNICAL SKILLS

Languages: C, C++, Java , Python , JavaScript , SQL , MySQL, HTML, CSS, MongoDB, TypeScript, Postgres
Frameworks: React, Angular, Node.js, Flask, WordPress
Developer Tools: Git, Docker, AWS, Google Cloud Platform, VS Code, Visual Studio, JIRA

EXPERIENCE

Software Developer Intern   June 2022 – Dec 2022
Future Fitness Technology   *Mumbai, India*
- Strategically contributed to the agile development of the company's website using React, Node.js, and MongoDB.
- Engineered RESTful APIs with Node.js and Express.js to optimize client-server communication; reduced API response time by 40% and increased scalability to handle 2x more users concurrently.
- Implemented continuous integration and deployment pipelines using Jenkins to automate the build and deployment process.
- Integrated microservices architecture using tools like Docker and Kubernetes to modularize and scale backend services independently.

Software Developer Intern   Dec. 2021 – March 2022
OCC Edusoft   *Mumbai, India*
- Contributed to the development of an innovative car rental platform, utilizing PHP and Flask for backend development, and Vue.js and React.js for frontend.
- Engineered the integration of geolocation services and mapping APIs, including Google Maps, to deliver location-based functionalities for rental pickup/drop-off points; optimized routes for 20% faster deliveries and reduced transportation costs by 15%
- Utilized Amazon Web Services (AWS) for cloud hosting and managed services, ensuring high availability and reliability of the car rental platform.

PROJECTS

One Stop Shop | *React, Node, MongoDB, Bootstrap, Redux*   June 2021 – Nov 2021
- Crafted a high-performance web app using React.js and Node.js, enhanced by MongoDB for data efficiency.
- Implemented real-time data synchronization, user authentication, and interactive data visualization.
- Achieved a 25% speed boost and 30% increase in user engagement through optimized operations.
- Used Celery and Redis for asynchronous tasks

FoodInDaHud | *React Native, TypeScript, Firebase, Git, AWS*   Jan 2023 – April 2023
- Engineered a user-friendly mobile application using React Native for seamless food customization and ordering.
- Utilized content-based filtering techniques to enhance user-specific suggestions.
- Developed deep learning models like recurrent neural networks (RNNs) for predictive analytics.
- Integrated dietary restrictions into recommendation algorithms for tailored suggestions.

Smart Attendance System | *Python, Flask, MySQL, OpenCV, Docker*   Jan 2023 – April 2023
- Developed a robust Attendance System integrating Machine Learning and facial recognition technologies with TensorFlow and OpenCV.
- Implemented Support Vector Machine (SVM) for accurate facial feature extraction, achieving a 95% accuracy rate in recognition.
- Implemented algorithms such as k-nearest neighbors (KNN), decision trees, and random forests to optimize student attendance monitoring processes.
- Employed convolutional neural networks (CNNs) to enhance facial recognition accuracy in the Attendance System, achieving a recognition rate of 98%.