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 (CGPA: 3.68/4)　　*Aug. 2019 – May 2023*

TECHNICAL SKILLS

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

EXPERIENCE

Software Developer Intern　　　　　　　　　　　　　　　　　June 2022 – Dec 2022
Future Fitness Technology　　　　　　　　　　　　　　　　　　　*Mumbai, India*
- Engineered an agile development approach for the company's website using React, Node.js, and MongoDB; increased traffic by 30% and reduced server response time by 50%, significantly improving site performance..
- Built 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 CI/CD pipelines with Jenkins, using Docker and Kubernetes for scalable microservices architecture.

Software Developer Intern　　　　　　　　　　　　　　　　　Dec. 2021 – March 2022
OCC Edusoft　　　　　　　　　　　　　　　　　　　　　　　　*Mumbai, India*
- Architected a sophisticated car rental system leveraging PHP and Flask for backend, and Vue.js and React.js for frontend; boosted platform engagement by 30% and cut development cycles by 15%
- Optimized rental service operations by integrating Google Maps for geolocation services, improving route efficiency by 20% and cutting 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

Stock Insight | *AngularJS, NodeJS, TypeScript, Bootstrap, MongoDB, Git, GCP, Docker*　　March 2024 – May 2024
- Developed "Stock Insight," a financial web app using Angular and Node.js for real-time stock data visualization and portfolio management.
- Streamlined a custom caching mechanism with Node.js to reduce API call frequency by 25%, lowering operational costs and enhancing application scalability.
- Automated deployment processes using Docker and Kubernetes, which minimized deployment errors by 90% and expedited rollouts of new features by 50%.
- Enhanced financial data visualization by integrating Highcharts, increasing interactive chart responsiveness and detail by 50%.

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.
- Designed and developed user authentication and authorization systems, employing JWT and OAuth for secure and seamless user login and registration processes.

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 SVM for precise facial feature extraction, achieving 95% recognition accuracy.
- Utilized algorithms like KNN, decision trees, and random forests to optimize student attendance monitoring.
- Used CNNs to boost facial recognition accuracy in the Attendance System, achieving a 98% recognition rate.