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++, 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

Quant Intern — July. 2024 – Present
Traderware — *Los Angeles, USA*
- Designed and implemented a comprehensive backtesting system for stock trading strategies using Python and yfinance.
- Calculated key performance metrics such as cumulative returns, maximum drawdown, and annualized volatility to evaluate the effectiveness of trading strategies.
- Incorporated stop-loss functionality to manage risk and improve trading performance.
- Developed a backtesting engine for customizable trading strategies with dynamic buy/sell signals.

Software Developer Intern — May. 2024 – July 2024
Kintsugi Global — *Los Angeles, USA*
- Built the backend with Node.js and Express.js, reducing server response time by 30%.
- Created React components with React.js and Tailwind CSS, improving UI responsiveness and reducing page load time by 15%.
- Integrated Stripe payment gateway, enhancing user experience and boosting successful transactions by 20%.
- Automated CI/CD pipelines and deployed on AWS, reducing deployment time by 40% and ensuring 99.9% uptime.

Software Developer Intern — June 2022 – Dec 2022
Future Fitness Technology — *Mumbai, India*
- Boosted traffic by 30% and halved server response time with an agile approach using React, Node.js, and MongoDB.
- Built RESTful APIs with Node.js and Express.js, reducing response time by 40% and doubling user scalability.
- Implemented CI/CD pipelines with Jenkins, using Docker and Kubernetes for scalable microservices architecture.

PROJECTS

Stock Insight | *AngularJS, NodeJS, TypeScript, Bootstrap, MongoDB, Git, GCP, Docker*   March 2024 – May 2024
- Developed "Stock Insight," a financial web app for real-time stock data and portfolio management using Angular and Node.js.
- Implemented custom caching in Node.js, reducing API calls by 25% and improving scalability.
- 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.
- Designed secure user authentication with JWT and OAuth, streamlining login and registration.

Smart Attendance System | *Python, Flask, MySQL, OpenCV, Docker*   Jan 2023 – April 2023
- 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.