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*

EXPERIENCE

Data Science Intern — July 2024 – Aug 2024
Traderware — *Los Angeles, USA*
- **Designed and implemented** a comprehensive backtesting system for stock trading strategies using Python, increasing simulation speed by **40%**.
- **Evaluated trading strategies** by calculating key performance metrics (cumulative returns, max drawdown, annualized volatility), resulting in a **25% improvement** in strategy accuracy.
- **Incorporated stop-loss functionality**, reducing average trade losses by **15%**, enhancing risk management for users.

Software Developer Intern — May. 2024 – July 2024
Kintsugi Global — *Los Angeles, USA*
- Engineered a highly optimized backend for the store app, **reducing server response time by 30%**, allowing it to handle **1000 concurrent users** without lag.
- **Improved UI responsiveness by 15%**, creating React components with Tailwind CSS, enhancing user experience across devices.
- Developed a **scalable music application** with React, ffmpeg, AWS S3, and Express.js, resulting in **500+ daily streams** with high-quality, uninterrupted music playback.

Software Developer Intern — June 2022 – Dec 2022
Future Fitness Technology — *Mumbai, India*
- Achieved a 30% increase in traffic 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.
- Led the migration of key services to a **microservices architecture** using Docker and Kubernetes, which enhanced modularity, improved fault tolerance, and increased platform uptime to **99.9%**.
- Collaborated with the product and UI/UX teams to improve the user interface, resulting in a **20% reduction in bounce rate** and increased overall user engagement by **15%**

PROJECTS

Imaginify | *NextJs, ReactJs, TypeScript, Bootstrap, MongoDB* — May 2024 – July 2024
- **Built** a web-based AI platform with **Next.js**, **React.js**, and **MongoDB**, enabling image processing features like background removal, restoration, and object manipulation.
- **Utilized Next.js ISR** for dynamic image processing updates and eliminating full page reloads
- **Implemented** dynamic imports in **Next.js** for on-demand AI library loading, reducing load times and boosting speed.

Stock Insight | *AngularJS, NodeJS, TypeScript, Bootstrap, MongoDB, Git, GCP* — March 2024 – May 2024
- Architected a real-time stock data tracking platform using **Angular** for the front-end and **Node.js** for backend services, improving data processing efficiency by **30%**
- 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 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.

TECHNICAL SKILLS

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