Shreyas Annavati

Frontend Developer

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Education

University of Birmingham **Sept. 2024 – Sept. 2025**
Master of Science in Advanced Computer Science *Birmingham, UK*

Dayananda Sagar Academy of Technology and Management **Aug. 2018 – July 2022**
Bachelor of Engineering in Computer Science *Bengaluru, India*

Technical Skills

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL
Frontend: React.js, Next.js, Redux, Tailwind CSS, Material UI (MUI), Responsive Design, Accessibility (WCAG)
Frontend Tooling: Webpack, Vite, NPM, Browser DevTools
Backend: Node.js, Express.js, RESTful APIs (input validation, error handling)
Testing & DevOps: Jest, Git, CI/CD (GitHub Actions, Jenkins), Docker
Practices & Core CS: Async JavaScript, State Management, Performance Optimization, Agile/Scrum

Experience

Accenture **Dec. 2022 – Sept. 2024**
Associate Software Engineer *Bengaluru, India*

- Architected and scaled **Full-stack web applications** for **Security Bank**, leveraging **React.js, Node.js, and TypeScript** to build high-concurrency transaction modules.
- Engineered complex state management logic using **Redux**, reducing client-side data inconsistencies and improving application reliability for over 100k+ monthly active users.
- Optimized **RESTful microservices** and database queries, achieving a **20% reduction in API latency** and ensuring 99.9% uptime during peak traffic periods.
- Translated high-fidelity **Figma designs** into **pixel-perfect, responsive UI** components, ensuring strict adherence to **web accessibility (WCAG)** and performance standards.
- Implemented automated **CI/CD pipelines** and **Jest** testing suites (**85% code coverage**), slashing deployment lead time and ensuring robust production stability.

Projects

StudySync (Award-Winning Hackathon Project) | *React, Node.js, Express, MongoDB, SCSS* **Nov. 2024**

- Awarded **"Public Choice Award"** at the University of Birmingham Hackathon for engineering a collaborative student-matching platform.
- Developed a **high-concurrency matching engine** and a responsive React frontend, optimizing the UI to maintain 60FPS performance for 100+ simultaneous users.
- Integrated **WebSockets** for live student interactions and used client-side caching to reduce redundant API calls by 30%.

Transformer for ICS Anomaly Detection | *PyTorch, Python, Scikit-learn, FastAPI* **Jan. 2025**

- Designed and deployed a **Transformer-based deep learning model** to detect industrial cyberattacks, outperforming legacy LSTM and Autoencoder baselines.
- Architected a robust **ETL pipeline** with SMOTE class balancing, achieving a **0.935 F1-score** and 0.97 accuracy on imbalanced datasets.
- Achieved an ultra-low inference **latency of 0.87 ms** per sample by optimizing the model for edge-deployment and real-time alerting.

Awards & Involvement

- **Public Choice Award**: Recognized at the University of Birmingham Hackathon (2024) for innovative system design and technical execution.
- **Full-Stack Movie Platform**: Built a responsive discovery app using **React.js and TMDB API**; implemented client-side caching to reduce initial load times by 40%.