Tanmay Saxena

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SUMMARY

- Full-stack developer with 3 years of experience building scalable web applications, optimizing 1TB+ data pipelines, and improving performance by 87.5%. Skilled in React, Django, Golang, PostgreSQL, and CI/CD to build high-performance solutions.
- Specialized in designing scalable RESTful APIs for high-performance and low-latency applications, with a strong focus on maintainability and scalability. Skilled in Agile, collaborative development, and Git version control.

EXPERIENCE

Applyin.co — Remote
SDE Intern — *June 2024 - Aug 2024*

- Developed and maintained scalable frontend components using React and Angular, ensuring responsive and user-friendly interfaces. Integrated secure payment gateways and optimized site performance, reducing load time by 30%.
- Designed and implemented RESTful APIs with Node.js, integrating seamlessly with front-end applications. Developed backend services with Node.js and Django, achieving 95% accuracy in grammar-spellcheck modules using OpenAI.
- Created and tested prototypes for writing assistant features, enhancing usability through animation and feedback-driven iterations.
- Implemented MVC architecture for web apps; developed a story-builder tool boosting user interaction by 25%.

Tata Consultancy Services Ltd. — Bengaluru, India
Systems Engineer — *Jan 2021 – May 2023*

- Developed a full-stack web application that automated ADAS vehicle log analysis, reducing manual effort from 1 hour to 5-10 minutes (87.5% efficiency gain) and scaling adoption from 15 to 100+ users.
- Optimized RESTful APIs (Django, PostgreSQL) to handle 1TB+ of log data, cutting query execution time by 60% through indexing, caching, and partitioning.
- Built interactive React-based dashboards that enabled instant filtering and visualization of 1M+ log entries, highlighting safety-critical issues early, reducing issue-tracking time by 40%.
- Ensured enterprise-grade security by deploying the system within company servers, secured VPNs, and internal networks, maintaining strict access control for 100+ users.
- Worked in an Agile environment, implementing Lean Six Sigma (LSS) principles to streamline workflows, automate deployments via CI/CD, and reduce update cycles by 50%.

SKILLS

- **Programming Languages**: Python, Java, Go, C++, JavaScript, SQL, Rust, Typescript
- **Frameworks/Tools**: Angular, React, Next.js, Node.js, Django, Flask, Express.js, GitHub Actions
- **Technologies**: AWS (Amazon S3), Docker, Google Cloud, RESTful APIs, GraphQL, CI/CD, Git
- **Data Skills**: MongoDB, PostgreSQL, MySQL, PowerBI, Data Preprocessing, Data Pipelines
- **Software Development**: Object-Oriented Programming (OOP), SOLID Principles, Microservices Architecture, Unit Testing, Debugging, Code Reviews

EDUCATION

University of Florida — Gainesville, FL
Master of Science (MS) - Computer Science (GPA: 3.89) — *August 2023 - May 2025*

SRM Institute of Science and Technology — Chennai, India
BTech in Electronics and Communication Engineering (Percentage: 85.76%) — *August 2016 - May 2020*

PROJECTS

- **UniBazaar - University Marketplace** : *Tech Stack: Go, AWS(S3), MongoDB, React, Tailwind CSS, Docker*
  - Solving the challenge of campus-specific second-hand trading, UniBazaar enables secure and localized transactions for students. Architected a scalable backend using Golang and MongoDB, implementing robust RESTful APIs for marketplace functionalities.
- **Essay Evaluator-** : *Tech Stack: Python, Django, OpenAI API, PostgreSQL, React*
  - Addressing the challenge of time-consuming manual essay evaluation, this Django-based web app leverages AI-powered text analysis to streamline grading and feedback increasing grading efficiency by 40%.
  - Integrated Google SSO authentication for secure user management. Built a history tracking system, allowing students to review feedback on past essays. Designed a clean and responsive UI using React and Bootstrap.
- **Library Books Management**: *Tech Stack: Python, Data Structures (Red-Black Tree, Binary Min Heaps)*
  - Designed an efficient book management system with optimized search and reservation algorithms.

ACHIEVEMENTS

- **Tata Consultancy Services:** Recipient of On-the-Spot Award at TCS for delivering 100% customer satisfaction.,