Tanmay Saxena

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Summary

Software engineer with 3+ years of experience building scalable web applications and robust backend systems. Proficient in JavaScript, Node.js, React, and Express.js with expertise in PostgreSQL, MongoDB, and cloud services (AWS & GCP). Strong foundation in RESTful APIs, JWT, object-oriented design, and cross-browser compatible UIs.

Technical Skills

Languages: JavaScript, TypeScript, HTML, CSS, Python, Go, Java, C++, SQL
Frameworks & Libraries: React, Node.js, Express.js, Django, Flask, Angular, Vue.js, Svelte, Next.js
Tools & Platforms: AWS (EC2, RDS, S3, Lambda), Google Cloud, Azure, Docker, GitHub Actions, RESTful APIs, GraphQL
Databases: PostgreSQL, MongoDB, MySQL, Elasticsearch, DynamoDB, Redis
Development Practices: OOP, SOLID, Microservices, System Design, Unit Testing, CI/CD, Debugging

Experience

Association for Computing Machinery (ACM) - University of Florida　　　　　　　Mar 2025 – Current
Software Engineer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Gainesville, FL*
- Optimized front-end load performance by 50% for a real-time dashboard app using Vite and Material UI tuning.
- Reduced AWS costs by 30% by transitioning workloads to Lambda and optimizing EC2 usage.
- Deployed full-stack apps with Node.js, PostgreSQL, and React using AWS and Docker.

Applyin.co　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jun 2024 – Aug 2024
SDE Intern　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*
- Built and optimized RESTful APIs in Node.js and Express.js; improved latency by 35%.
- Reduced first input delay by 40% using React SSR, memoization, and event optimization.
- Used JWT for secure auth flows and integrated Google SSO, reducing onboarding time by 60%.
- Boosted user engagement by 25% with a dynamic, interactive React-based story-builder tool.

Tata Consultancy Services (TCS)　　　　　　　　　　　　　　　　　　　Jan 2021 – May 2023
Systems Engineer (Developer for General Motors)　　　　　　　　　　　　　　　*Bengaluru, India*
- Automated data processing with Django-React app, reducing manual work by 87.5%.
- Improved PostgreSQL query performance by 60% across a 1TB+ dataset via indexing and partitioning.
- Cut deployment time by 50% by implementing CI/CD pipelines using GitHub Actions.
- Built real-time React dashboards, reducing issue resolution time by 40%.
- Scaled backend pipeline capacity by 2x to support 21+ ADAS features in autonomous vehicle data.
- Collaborated in Agile teams; led debugging sessions to resolve complex JS issues across the stack.

Projects

UniBazaar | *Golang, PostgreSQL, React, Tailwind CSS, Docker, AWS (EC2, RDS, S3, Lambda), Azure*
- Reduced API response latency by 35% by optimizing Golang RESTful APIs and WebSocket communication.
- Ensured **99.9%** uptime for real-time chat by deploying a WebSocket backend on AWS EC2 with auto-scaling.

Essay Evaluator | *Python, Django, OpenAI API, PostgreSQL, React*
- Automated essay grading, reducing manual effort by **40%** using OpenAI-powered text analysis and Django.
- Increased user onboarding speed by **60%** by implementing Google SSO authentication and streamlining session

Text-Redactor | *Python*
- Developed a Python package to redact sensitive information, improving privacy compliance by **80%**.
- Processed large-scale text data **60%** faster by optimizing regex-based pattern matching.

Education

University of Florida　　　　　　　　　　　　　　　　　　　　　　　　Aug 2023 – May 2025
Master of Science in Computer Science (GPA: 3.89 / 4.00)　　　　　　　　　　　　*Gainesville, FL*

SRM Institute of Science and Technology　　　　　　　　　　　　　　　Jun 2016 – May 2020
BTech in Electronics and Communications Engineering (GPA: 8.58 / 10.00)　　　　　*Chennai, India*