

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, 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%.
 - Improved 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)**
- 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