

Tanmay Saxena

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GitHub: github.com/Jawsenigma — Portfolio: jawsenigma.github.io

SUMMARY

- Results-driven full-stack developer with 3+ years of experience building scalable, maintainable applications. Proficient in React, Node.js, Python, SQL, and cloud technologies. Adept at delivering high-performance solutions and optimizing systems for growth.
- Specialized in designing scalable RESTful APIs and integrating GraphQL for high-performance application development. Skilled in Agile methodologies, collaborative development, and Git version control.

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

SKILLS

- Programming Languages:** Python, C++, JavaScript, Typescript
- Frameworks/Tools:** React, Node.js, Django, Angular, Flask, TensorFlow, PyTorch, Kubernetes
- Technologies:** Docker, AWS, Google Cloud, RESTful APIs, GraphQL, CI/CD
- Data Skills:** PostgreSQL, MySQL, PowerBI, Data Preprocessing, Data Pipelines

EXPERIENCE

- Applyin.co** Remote
SDE Intern June 2024 - Aug 2024
 - Developed and maintained frontend components using React and Angular, ensuring responsive and user-friendly interfaces. Implemented backend services with Node.js and Django.
 - Designed and implemented RESTful APIs using Node.js, integrating with front-end applications for full-stack development.
 - Applied Agile methodologies, reducing sprint delivery times by 15% and increasing team productivity.
 - Created and tested prototypes for new product features, iterating designs based on feedback and data-driven insights. Implemented MVC architecture for web applications, improving code maintainability and scalability.
- Tata Consultancy Services Ltd.** Bengaluru, India
Systems Engineer Jan 2021 - May 2023
 - Developed and tested 21 Advanced Driver Assistance Systems (ADAS) features such as AEB, LCC, LDW etc. for GM vehicles, enhancing vehicle safety and performance.
 - Trained new recruits on ADAS development, conducting technical sessions to onboard members and improve project knowledge. Increased team efficiency by 80% through development of Python Tkinter GUI for streamlined workflows.
 - Developed interactive Power BI dashboards for GM, improving data visualization by 30% and enabling analysis of 6+ years of vehicle testing data. Implemented data preprocessing and pipeline techniques to harmonize legacy and current datasets, improving data quality and consistency for analysis.

PROJECTS

- Essay Evaluator - :**
 - Developed a Django-based web app using Python, OpenAI API, and PostgreSQL to evaluate essays, enhancing grading efficiency by 40%. Integrated Google SSO for secure authentication and utilized Django's admin panel for customizable prompt editing and feedback management.
 - Designed and implemented a responsive user interface using HTML, CSS, JavaScript, and Bootstrap. Leveraged RESTful APIs for smooth communication between the frontend and backend, enabling essay submission, feedback history display, and error-free data handling.
- RISC-V Simulator:**
 - Developed a Python-based RISC-V simulator incorporating parsing, execution, and disassembly functionalities, facilitating the loading, interpretation, and simulation of RISC-V assembly programs, yielding comprehensive disassembly and simulation outputs for in-depth analysis.
- Advanced Library Management System Architecture:**
 - Implemented library management system with Red-Black Tree for book management and Binary Min Heaps for reservations, supporting various operations. Program structured with classes like RedBlackNode, RBTree, MinHeap, GatorLibrary, Book, and Patron, each with methods for seamless execution of operations, providing user-friendly interface for effective management.

ACHIEVEMENTS

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