

Sai Nikhil Somepalli

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EDUCATION

Master of Science in Computer Science | University at Buffalo

Aug 2023 – Dec 2024

(Courses: *Design & Analysis of Algorithms, Operating Systems, Database Management Syst, Intro Machine learning*)

B. Tech in Computer Science and Engineering | VIT Vellore

(Courses: *DSA, Object oriented programming, Computer Networks, Web tech, Cloud computing, Big Data Analysis*)

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, TypeScript, JavaScript
- **Frameworks/Libraries:** Django, Flask, FastAPI, Spring Boot, React.js, Node.js, GraphQL, RabbitMQ
- **Databases:** MySQL, PostgreSQL, MongoDB, Cassandra
- **Web Technologies:** Redux, jQuery, JSON, HTML, CSS, XML
- **Cloud & DevOps:** AWS (Lambda, DynamoDB, S3, EC2, ECS, EKS, RDS, SNS, API Gateway), Azure DevOps, Docker, Kubernetes.
- **CI/CD & Tools:** Jenkins, Maven, Git/GitHub, Jira, Confluence, Postman, JUnit, Mockito, Kafka

WORK EXPERIENCE

BNY Mellon, New York | Full Stack Developer

May 2024 – Present

- Designed and developed **enterprise-scale web applications** using **Django, Flask, and FastAPI**, improving backend performance and reducing API latency by 30%.
- Built **responsive and accessible frontends** using **React.js, TypeScript, and Bootstrap**, ensuring cross-browser compatibility and WCAG compliance.
- Developed and consumed **RESTful & GraphQL APIs** integrating MySQL and MongoDB, optimizing database queries to reduce execution time by 20%.
- Automated build, test, and deployment pipelines with **Jenkins, Docker, and Kubernetes on AWS**, improving scalability and reducing downtime.
- **Integrated AI-powered anomaly detection models into backend services** to flag suspicious transactions, enhancing system reliability and security monitoring.
- **Leveraged machine learning APIs (scikit-learn, TensorFlow) for predictive analytics**, improving data-driven insights and enabling automated reporting features.

Sage Softtech, India | Full Stack Developer

Jan 2022 – July 2023

- Developed **RESTful APIs with Flask, PostgreSQL, and Docker**, reducing average response time by 30%.
- Optimized backend logic and SQL queries, cutting **application load times by 40%** and boosting reliability.
- Implemented frontend performance optimizations with **jQuery and caching strategies**, lowering API response times from 200ms to <20ms.
- Automated infrastructure tasks with **Python scripts**, reclaiming 50+ unused IPs monthly and improving resource efficiency.
- Built a **serverless information retrieval system** on AWS (S3, Lambda, DynamoDB, API Gateway), achieving **80% faster query response times** and reducing operational costs by 40%.

Smart Bridge, India | Web Development Intern

Apr 2021 – July 2021

- Built a **full-stack food ordering application** with **Django (backend) and React (frontend)**, including calorie tracking and fitness features.
- Designed secure, scalable **APIs with Django REST Framework** and optimized PostgreSQL queries for efficient data handling.

CERTIFICATION

AWS Certified Solutions Architect - https://www.credly.com/badges/249ca6af-fd74-449e-870c-266c964a2721/public_url

AWS Certified Cloud Practitioner - https://www.credly.com/badges/e1683fb6-6a14-4048-a456-bd7d435c94e8/public_url