

URMIL TRIVEDI

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SUMMARY

Over 3 years of software engineering experience, currently working as a Software Development Engineer at BNY Mellon. Skilled in operating systems, data structures, algorithms, JavaScript, TypeScript, cloud technologies, Java, and Python. Expertise in building scalable, reliable service-oriented systems with a focus on machine learning and AI solutions.

EXPERIENCE

- Software Development Engineer** | BNY Mellon June 2024 – Present
- Deployed serverless microservices on AWS Lambda, reducing operational costs by 30%, and integrated with H2 Console DB for rapid in-memory data management and testing.
 - Implemented secure data handling processes, optimizing database interactions between AngularJS front-end and Spring Boot back-end, while ensuring seamless deployment of cloud functions on AWS Lambda.
- Software Development Intern** | MTA(New York City Transit), New York, NY Feb 2024 – June 2024
- Enhanced responsiveness and cut load times by 30% with React and TypeScript SPA, integrating Google OAuth.
 - Reduced system downtime by 40% by developing a real-time data integration solution using multiple APIs and GTFS data for transport outage monitoring.
 - Standardized data structures across 11 major contracts (valued at over \$50M), cutting manual management efforts by 20% and ensuring future migrations.
- Software Development Intern** | All IT Solutions, Mount Laurel, NJ May 2023 – Sept 2023
- Automated fraud detection with a custom AWS service using machine learning, improving detection accuracy by 25%.
 - Developed a real-time financial reporting system using RPG ILE and DDS, automating sub-file processing and enhancing data handling efficiency by 30%.
 - Enhanced data flow management through SQL-based ETL pipelines using AWS Glue and Airflow; fortified system security with AWS IAM, CloudTrail, and Guard-Duty, achieving 99.9% data integrity and processing reliability.
- Research Assistant** | Pace University, New York, NY Sept 2022 – Feb 2023
- Applied Volterra matched filter expansion using MATLAB and Simulink, achieving a 25% system accuracy enhancement.
 - Achieved up to 50% performance improvement using transfer learning with TensorFlow and PyTorch on 20% of the data.
- Software Development Engineer** | Beyon Data Solutions, Ahmedabad, India Jan 2022 – Aug 2022
- Customized Odoo modules for finance and HR, boosting operational efficiency by 20% for three enterprise clients.
 - Developed a University management system using Python, PostgreSQL, and RPG ILE sub-file processing, managing over 10,000 student records efficiently.
 - Optimized back-end workflows with Linux Bash scripts and Python, improved security with AES, RSA encryption.

PROJECTS

- MoodSphere** | ReactJs, HTML, CSS3, Flask, Docker, GCP | [MoodSphere Vercel](#) | [Github](#)
- Architected MoodSphere, selecting technologies like Python, Flask, React, HTML5, CSS3, and JavaScript.
 - Developed emotion-based music recommendation algorithms, training a dataset of 80,000 images with ResNet50V2 and CNN, enhancing engagement by 30%.
 - Led the team, ensuring best practices in code quality, version control, and deployment using Docker and GCP.

PROGRAMMING SKILLS

Programming: Java, JavaScript, Python, C, C++, Typescript, PHP, HTML, CSS3

Frameworks: ReactJS, NodeJS, ExpressJS, AngularJS, Spring Boot, Django

Tools/IDE: VS Code, Git/GitHub, Jira, Slack, Postman, Informatica, Data Stage

Databases: PostgreSQL, Microsoft SQL Server, Oracle, MongoDB, SQLite, Firebase | **Visualization:** Tableau, PowerBI

EDUCATION

- Pace University, Seidenberg School of Computer Science and Information Systems** New York, NY
Master of Science (MS) in Computer Science | **Concentration:** Software Engineering | **GPA: 3.8** May 2024
- Gujarat Technological University** Gujarat, India
Bachelor of Engineering (BE) in Electronics and Communication | **GPA: 3.5** May 2022