

JAY BIPIN GANATRA

+1 (680) 697 5622 | jganatra@syr.edu | jayganatra.com | [GitHub](#) | [LinkedIn](#)

EDUCATION

Syracuse University – College of Engineering & Computer Science, Syracuse, New York **August 2022 – May 2024**

Master of Science in Computer Science – GPA: 3.8/4

Coursework: Object Oriented Design, Android, iOS, Design and Analysis of Algorithms, DBMS, Social Media and Data Mining.

Mumbai University – K. J. Somaiya Institute of Engineering and Information Technology, Mumbai, India **August 2018 – June 2022**

Bachelor of Technology in Information Technology – GPA: 8.9/10

Coursework: Cloud Computing, Big Data Analysis, Project Management, Artificial Intelligence, Machine Learning and Pattern Recognition.

Leadership: Served as the Organizing Admin of the IETE Committee chapter of KJSIEIT.

SKILLS

- **Development:** JavaScript/TypeScript, Java, Kotlin, Swift, Python, PHP, Haskell, C++, Dart, SQL, HTML, CSS, SASS, jQuery, GraphQL, REST.
- **Framework:** Node.js, React.js, Next.js, Vue.js, Flutter, SwiftUI, Spring, Tailwind, Laravel, Flask.
- **Database:** SQL - MySQL/PLSQL/MSSQL/PostgreSQL, SQLite, NoSQL MongoDB, DynamoDB, Snowflake, Eloquent ORM.
- **Cloud:** AWS, GCP, Docker, Kubernetes, Terraform, GitHub Actions, Jenkins, Heroku, Vercel, Firebase, CI/CD Pipelines.
- **Tools:** Git, Husky, Jira, Confluence, Figma, Postman, WordPress CMS, Adobe XD, Linux, Android Studio, IntelliJ, npm, Webpack.
- **Skills:** Agile, Test-Driven (TDD), Problem Solving, Critical thinking, Quick learner, Strong verbal and written communication skills.
- **Certifications:** IBM: Intro to Docker, Kubernetes, Microsoft: Career Essentials in Software Development, GitHub Career Essentials.

WORK EXPERIENCE

Teaching Assistant, Syracuse University – Syracuse, New York **August 2023 – December 2023**

- Acted as TA for CIS 628 – Intro. to Cryptography, supported and facilitated learning with the Professor for a class of 80 students.

Software Development Intern (Full Stack), SQOR Technologies Inc. – Remote, New York **July 2023 – August 2023**

- Utilized React.js, Material UI, Node.js, MongoDB, Git, Docker, GitHub Actions, Amazon ECS, AWS Cognito, Jira, and Confluence.
- Engineered authentication workflows using AWS Cognito. Constructed 7+ core APIs to seamlessly integrate various services in the portal, enabling efficient tracking of resource usage.
- Enhanced website performance, reducing site load times by 15% through implementing 20+ custom components using Material UI.
- Recognized a need for improved response times in backend and added middleware enhancements, resulting in a significant 30% reduction in response time.

PROJECT EXPERIENCE

Campus Shuttle Pilot Project | Spring, MySQL **September 2023 – December 2023**

- Collaborated with two teammates on CIS:687 Object-Oriented Design, contributing to the implementation of essential object-oriented principles and functionalities.
- Developed a pilot Campus Evening Shuttle, allowing students to request rides via a mobile app and receive real-time ETA responses, resulting in a 30% reduction in wait times.
- Built HTTP endpoints in a Spring Backend for adding passengers and tracking shuttle locations, optimizing drop-off sequencing.

TravelEase - Travel Companion | Android Application **September 2023 – December 2023**

- Application development in a team of 3 for CIS:600 Android Programming, to create TravelEase, a comprehensive Android travel companion using Kotlin, Material UI, SQLite, and Git as version control, with a primary emphasis on user experience.
- Devised key features, including Google Maps API integration, Firebase Authentication, social interaction with user profiles and photo-sharing, and a digital travelogue.

Real-time Tweet Emotion Analysis System | Data Visualization, Python **February 2023 – May 2023**

- Designed a user-focused interface that allowed users to view results of emotion analysis on incoming tweets and a time-series analysis of recent emotions in the last ten days.
- Assumed leadership of a 7-member cross-functional team, overseeing entire project lifecycle with a strong focus on collaboration and organization. This leadership resulted in a notable 20% increase in project efficiency, showcasing effective project management skills.

Digital Student Cards Portal | MERN app **February 2021 – August 2022**

- Engineered a centralized platform for 6 schools under Somaiya Trust, resulting in a 70% improvement in data accessibility.
- Led a team of 3 students in the design and development of a portal using React and Bootstrap, resulting in a user-friendly platform.
- Built it with real-time access and seamless integration, resulting in a 30% improvement in student information management efficiency.

Event Management System (EMS) | LAMP stack application **June 2020 – May 2022**

- Managed a team of 5 students in creation of an integrated web application, Event Management System, revamping event coordination and enhancing communication for five college departments.
- Led the project team by offering guidance and mentorship, enabling on-time delivery of a critical project within two months.
- Engaged in extensive collaboration with 100+ faculties and 4 department heads to gather, analyze, and fulfill specific requirements with tailored technical solutions for front-end and back-end development.