

# JAY BIPIN GANATRA

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## EDUCATION

**Syracuse University** – Master of Science in Computer Science - GPA: 3.8/4 **August 2022 – May 2024**

Coursework: Object Oriented Design, Android & iOS Application Development, Design and Analysis of Algorithms, DBMS, Data Mining.

**Mumbai University** – Bachelor of Technology in Information Technology - GPA: 8.9/10 **August 2018 – May 2022**

Coursework: User Interface Design (HCI), DevOps, Cloud Computing, Big Data Analysis, Artificial Intelligence, Machine Learning.

## WORK EXPERIENCE

**Teaching Assistant – CIS: Intro. to Cryptography**, Syracuse University - Syracuse, New York **August 2023 – December 2023**

- Supported and facilitated learning with the Professor for a class of 80 students, enhancing class engagement.

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

- Engineered authentication workflows with AWS Cognito and developed core APIs, integrating SSO login and email verification resulting in a 20% decrease in administrative overhead due to simplified processes.
- Enhanced website performance by 15%, reducing site load times through the implementation of 35+ custom Material UI components.
- Implemented middleware enhancements to optimize backend response times, achieving a significant 30% reduction through streamlined API calls and authentication processes.
- Stack:** React.js, Material UI, Node.js, MongoDB, Git, Docker, GitHub Actions, Amazon ECS, AWS Cognito, Jira, and Confluence.

**Software Development Intern (Frontend Engineer)**, MindScript/KJSIEIT - Mumbai, India **February 2021 – August 2022**

- Launched a centralized platform for 7 schools under Somaiya Trust, resulting in a 70% improvement in data accessibility for more than 2000 students.
- Led a team of 3 students to develop a responsive, user-friendly portal with real-time access and seamless integration, overcoming challenges in data migration and user interface design, resulting in a 30% improvement in student information management efficiency.
- Designed configurable data models for forms, enabling schools to define custom fields (phone number with custom validation rules) and layouts through pre-defined templates. This facilitates rapid onboarding (< 30 mins) and sharing between institutions.
- Stack:** React.js, Bootstrap, Node.js, Express, MongoDB, Git.

**Software Engineer Intern (Full Stack)**, EYUVA Technologies - Remote **December 2019 - January 2020**

- Developed and led a team of 5 in creating an in-house app to centralize stock management for computers, cutting inventory management time by 20%.
- Designed responsive user interfaces, overcoming challenges in creating an intuitive navigation system for a complex inventory management system, resulting in a 30% increase in user satisfaction and decreased training time for new employees.
- Stack:** PHP, MySQL, HTML, CSS, Bootstrap, and jQuery.

## SKILLS

- Development:** JavaScript/TypeScript, Java, Android, iOS, Python, PHP, Flutter, **HTML, CSS**, SASS, jQuery, GraphQL, REST APIs.
- Frameworks:** Node.js, **React.js**, Next.js, SwiftUI, Spring, Tailwind, Laravel, Flask, Vue.js.
- Database:** **SQL**- MySQL, PLSQL/MSSQL/PostgreSQL, SQLite, MongoDB, DynamoDB, NoSQL, Snowflake, Eloquent ORM.
- Cloud/DevOps:** AWS, Firebase, Git, Docker, Kubernetes, Terraform, GitHub Actions, Jenkins, CI/CD Pipelines, GCP.
- Tools:** Figma, WordPress CMS, npm, Husky, Jira, Confluence, Adobe XD, Linux/Unix/Bash, Android Studio, IntelliJ, Webpack.
- Certifications:** IBM: Intro to Docker, Kubernetes, Microsoft: Career Essentials in Software Development, GitHub Career Essentials.

## PROJECT EXPERIENCE

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

- Designed and implemented a pilot Campus Evening Shuttle application with real-time ETA responses, reducing wait times by 30%.
- Collaborated in a team of 3 to streamline shuttle operations and optimize drop-off sequencing by building HTTP endpoints for passenger management and location tracking.

**TravelEase - Travel Companion** - Android (Kotlin), Firebase, SQLite, Git **September 2023 – December 2023**

- Co-developed a comprehensive Android travel companion app (TravelEase) in a team of 3, focusing on user experience and efficient trip planning.
- Implemented Google Places API integration for location search and enhancing user exploration capabilities, developed user interface elements, and contributed to the integration of the Google Maps SDK.

**Event Management System (EMS)** - PHP, MySQL, HTML, CSS, JavaScript, jQuery, Linux, Git **June 2020 – May 2022**

- Led a team of 5 students to develop EMS, an automated system that effectively reduced the time required by 85% to organize an event by developing an end-to-end solution for event management, right from planning to its completion, and a post-event user interface for resource exchange.
- Collaborated with over 100 faculties and 4 department heads to gather requirements for EMS. Provided tailored technical solutions including automated notifications, to enhance user experience and efficiency.