

Jay Bipin Ganatra

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EDUCATION

Syracuse University – College of Engineering and Computer Science, Syracuse, New York

August 2022 – May 2024

Master of Science in Computer Science – GPA: 3.78/4

Coursework: Object Oriented Design, Android Programming, Design and Analysis of Algorithms, Computer Architecture, DBMS, Social Media and Data Mining, Cryptography, Operating Systems, Structured Programming and Functional Methods.

Mumbai University – K. J. Somaiya Institute of Engineering and Information Technology, Mumbai, India

August 2018 – June 2023

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

Coursework: Cloud Computing, Computer Networks, Automata Theory, UI/UX Design Specializations, Big Data Analysis, Artificial Intelligence, IoT, Logic Design, Management Information System, Project Management, Unix Lab, Internet Programming.

WORK EXPERIENCE

Software Development Intern, 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.
- Designed and optimized authentication workflows using AWS Cognito. Constructed core APIs to seamlessly integrate various services into the portal, enabling efficient tracking of resource usage.
- Improved site load times by 15% through building 20+ custom components and optimization of Material UI components.
- Implemented middleware enhancements in the backend, achieving a 30% reduction in response time.
- Achieved a 95% reduction in manual configuration errors, improving deployment reliability.

Software Development Intern, MindScript - Thane, India

December 2020 – May 2021

- Leveraged React.js, Node.js, MongoDB, Git, Vercel and Heroku.
- Reduced image file sizes by 30% through optimization techniques, leading to a 20% improvement in site performance.
- Set up push notification functionality, leading to a 22% boost in user engagement metrics.
- Initiated the development of a reusable UI library, streamlining client project workflows and reducing development time by 15%.

PROJECTS

Real-time Tweet Emotion Analysis System

February 2023 – May 2023

- Made use of Python, Flask, Matplotlib and Tailwind CSS.
- Designed a user-focused interface that allowed users to view the results of emotion analysis on incoming tweets and a time-series analysis of recent emotions in the last ten days.
- Utilized natural language processing and data analysis to analyze emotions in 10,000 real-time tweets, achieving a sentiment accuracy of 88%.
- Effectively led a team of 7 members in managing the entire project lifecycle, resulting in a 20% increase in project efficiency.

Digital Student Cards Portal

February 2021 – August 2022

- Employed React.js, Bootstrap, Node.js, MongoDB, Git, Vercel and Heroku.
- Engineered a centralized platform for 6 educational institutions 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.
- Achieved a 40% increase in overall system capabilities by implementing and optimizing REST APIs, leading to superior user experience.

Event Management System (EMS)

June 2020 – May 2022

- Used PHP, MySQL, Bootstrap, HTML, CSS and GoDaddy Hosting.
- Managed a team of 5 students in the successful creation of an integrated Event Management System, optimizing event coordination and enhancing communication for five college departments.
- Adopted the MVC pattern and incorporation of Object-Oriented Concepts in PHP, resulting in an agile and maintainable web application.
- Led the project team by offering guidance and mentorship, enabling the 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.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, PHP, Python, Java, Kotlin, Haskell, C++, Dart, SQL.
- **Frameworks:** Node.js, React.js, Next.js, Vue.js, Tailwind, Laravel, Flask, Flutter.
- **Databases:** MySQL/PLSQL/MSSQL/PostgreSQL, SQLite, DynamoDB, Snowflake, MongoDB.
- **Tools:** Git, Husky, Figma, Postman, Android Studio, Jira, Confluence, Trello, Miro, WordPress, Adobe XD, Linux.
- **Cloud:** AWS, GCP, Docker, Heroku, Vercel, Terraform, GitHub Actions, Jenkins.
- **Others:** HTML, CSS, SASS, jQuery, Flutter.

ACTIVITIES

- Serving as a Teaching Assistant for the graduate course Introduction to Cryptography.
- Served as the Organizing Admin of the IETE Committee chapter of KJSIEIT.
- Developed a website for JOSH Foundation, a non-profit organization working on curing hearing impairment in children.
- Volunteering to distribute the grocery to 200-250 households every week at the Central New York Food Pantry.