

Jay Bhatt

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EDUCATION

University of North Carolina at Charlotte

Master of Science in Computer Science - (GPA: 3.9/4.0)

Aug 2021 - May 2023
Charlotte, NC, United States

University of Mumbai

Bachelor of Engineering in Information Technology

Aug 2016 - Oct 2020
Mumbai, MH, India

TECHNICAL SKILLS

- **Programming Languages:** Java, Groovy, Python, TypeScript, JavaScript, SQL
 - **Web Technologies:** Springboot, J2EE, FastAPI, Polars, HTML5, CSS3, ES6, Tailwind CSS, Next.js, React, Redux, Node, JSON
 - **Testing Frameworks:** JUnit, Mockito
 - **Database:** NoSQL, SQL, MongoDB, MySQL, Redis
 - **Tools:** Git, Github, Maven, Swagger, Docker, Kubernetes, Figma, Confluence, Jira, Postman, Grafana, Prometheus, Jaeger
 - **Concepts:** Object-oriented programming, Functional Programming, Agile, MVC, REST API, Test-driven development
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WORK EXPERIENCE

American Tire Distributors, Huntersville, NC | Software Engineer

Jan 2024 - Present

- Architected and deployed REST APIs within a microservice environment, processing 10,000+ requests/min and reducing response times by 35% through multithreading, MongoDB indexing, Redis caching, and asynchronous Java calls
- Automated data processing workflows with Python scripts and scheduled jobs, cutting manual effort by 75% and boosting team productivity
- Optimized performance by refactoring a Python cron job with Polars instead of pandas and integrating threading and multiprocessing, resulting in a 47% reduction in runtime and a 50% decrease in resource usage
- Built scalable Java pipeline for batch processing 1 million+ records, utilizing Kafka for high-throughput data ingestion and distributed processing, JUnit integration, and Unit test suite ensuring 95% coverage
- Enhanced project delivery through cross-team collaboration, root cause analysis, and continuous process improvements

Cyberdetect Solutions, Boston, MA | Web Developer Intern

Jan 2024 - Jan 2024

- Engineered the company website using a robust tech stack, including TypeScript, React JS, Next JS, Tailwind CSS, Redux, and Material UI, resulting in a 20% increase in user engagement
- Boosted site performance by 30% through server-side rendering, lazy loading, and compression, dramatically improving user experience across all devices

Realty Pillar Pvt. Ltd, Mumbai, India | Software Engineer

Jun 2020 - Jul 2021

- Collaborated with a team of engineers to develop a user-friendly and responsive web application enabling 100+ clients to manage ongoing real estate development projects
 - Championed the creation of a report automation module with React and Node, leading to a 20% increase in revenue
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CERTIFICATIONS

AWS Certified Developer- Associate | [view badge](#)

- Attained potency in developing, debugging, and deploying applications using AWS cloud infrastructure services
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PROJECTS

SnapGlimpse | [Live Demo](#) | [Github](#) | Technologies: *TypeScript, HTML5, Tailwind CSS, React, Next.js 13, GraphQL, StepZen*

- Developed a web application with a responsive frontend UI, swiftly aggregating and showcasing news from 4 nations, 7000+ sources, and 13 languages in real-time through integration with an external API

ScheduleWizard++ | [Github](#) | Technologies: *JavaScript, HTML5, CSS3, Node JS, Express.js, React.js, Google Cloud Platform*

- Co-authored a web application to automate the extraction of class schedule information from images and synchronization of user-selected classes to Google Calendar, resulting in a 75% reduction in effort for users
- Implemented strategies to optimize API calls to Google Calendar API, resulting in a 25% reduction in project expenses