





# Hetan Thakkar

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## EDUCATION

<b>Master of Science in Computer Science</b>   Northeastern University	Sep. 2023 – May. 2025
Coursework: Algorithms and Data Structure, Object-Oriented Programming, Cloud Computing	
<b>Bachelor of Engineering in Computer Engineering</b>   Gujarat Technological University	Aug. 2018 – May. 2022
Coursework: Distributed Systems, Database Management Systems, Machine Learning	

## EXPERIENCE

<b>Graduate Teaching Assistant</b> 	Sep. 2023 – Dec. 2023
Northeastern University   C++, OpenGL, WebGL	Boston, MA
<ul style="list-style-type: none"><li>Created comprehensive tutorial projects demonstrating multithreaded game engine architecture, particle systems, and <b>real-time physics simulations</b> using C++ and OpenGL <a href="#">Project Portfolio</a></li><li>Mentored students in building interactive <b>3D visualization</b> applications with advanced features like lighting, shadow mapping, and post-processing effects using WebGL</li><li>Led code review sessions for <b>120 students</b> focusing on low-level memory management and optimization techniques</li></ul>	
<b>Software Development Engineer</b> 	Jul. 2021 – Jul. 2023
Zoyride   ASP.NET Core, Azure, SQL Server, React, Docker	Gurugram, India
<ul style="list-style-type: none"><li>Designed a responsive <b>React frontend</b> for ride booking and fleet management <b>supporting 100K+ daily users</b></li><li>Wrote ASP.NET Core microservices and SQL schemas with Entity Framework for ride-sharing and cost-splitting features</li><li>Utilized <b>Datadog</b> APM and logging to monitor microservices and APIs, tracking ride matching latency and failed bookings, which led to a <b>40% reduction in incident resolution time</b></li><li>Deployed backend on Azure App Service with Load balancing and auto scaling, ensuring response times under 200ms</li><li>Integrated <b>multi-language support</b> across 4 regional markets with i18next, expanding reach to <b>50K+ new users</b></li><li>Engineered a CI/CD pipeline with Azure DevOps and Docker, automating deployment cycles across 8 microservices</li></ul>	
<b>Software Engineering Intern</b> 	May. 2021 – Jul. 2021
Zoyride   React, ASP.NET Core, MongoDB	Gurugram, India
<ul style="list-style-type: none"><li>Created real-time ride tracking and dashboards using React and D3.js, enhancing usability for fleet managers.</li><li><b>Built ASP.NET Core APIs</b> with optimized document structures to process 20K+ daily location updates from drivers</li><li>Implemented custom curved polyline algorithms in Google Maps, <b>reducing API costs by \$120K annually</b></li></ul>	
<b>Software Development Intern</b> 	Feb. 2020 – Jun. 2020
Bytefury Inc.   C#, ASP.NET, TypeScript, React, Redis, Azure, Git	Bangalore, India
<ul style="list-style-type: none"><li><b>Reduced invoice creation time by 9%</b> through UI revamp with modern UX principles and updated React components</li><li>Developed payment APIs in ASP.NET adding support for <b>15 currencies, driving over 3,000 new app downloads</b></li><li>Used Redis for <b>caching complex invoice calculations</b>, cutting average response time from 2.5 seconds to 800ms</li></ul>	

## OPEN SOURCE & PROJECTS

<b>Microsoft, Meta &amp; Elastic</b>   Java, Android, iOS 	May. 2021 – Jul. 2021
<ul style="list-style-type: none"><li><b>Microsoft:</b> Fixed critical DatePicker bug in FluentUI while improving accessibility across <b>Microsoft 365 UI components</b></li><li><b>Meta:</b> Added Form Data support for file uploads &amp; Fixed rendering bugs benefiting over <b>100K React developers</b></li><li>Fixed critical bugs, <b>earning a \$300 bounty</b> for contributions in the React Native Elements library (<b>1M downloads</b>)</li><li>Earned <b>AWS Cloud Architect Certification</b> designing scalable solutions using EC2, S3, RDS &amp; DynamoDB</li></ul>	
<b>AI-Powered Resume Validation Platform</b>   NLP, TensorFlow, C# <a href="#">Live Demo</a> 	May. 2024 – Present
<ul style="list-style-type: none"><li>Developed an Android app using ML and NLP to verify if job candidates' professional experience in resumes matches their LinkedIn profiles, ensuring that the content isn't tailored solely to job descriptions</li><li>Automated verification of candidates' coding projects through GitHub analysis and URL scraping, using NLP(BERT) and OpenAI API to cross-validate resume claims against extracted data with &gt;90% accuracy</li></ul>	
<b>Peer-to-Peer File Transfer System</b>   Java, Multithreading, TCP/IP <a href="#">Live Demo</a> 	Sep. 2023 – May. 2024
<ul style="list-style-type: none"><li>Built a serverless P2P file transfer app in Java, supporting <b>300 users</b> and up to <b>10,000 transfers per hour</b></li><li>Incorporated <b>parallel upload/download</b>, prioritized seeding and employed a rarest piece first strategy</li><li>Implemented handshake and message protocol, including choke, unchoke, and interested message types</li></ul>	

## SKILLS

Languages	C#, Python, Java, JavaScript, TypeScript, C++
Frameworks	.NET, React, Node.js, Spring Boot, Selenium, JUnit, TensorFlow
Developer Tools	SQL (PostgreSQL, MySQL), MongoDB, Azure, Docker, Kubernetes, WebSocket