Hetan Thakkar

857-200-8726 | thakkar.heta@northeastern.edu | LinkedIn | Portfolio | Boston, MA

EDUCATION

Master of Science in Computer Science | Northeastern University — *Sep. 2023 – May. 2025*
Coursework: Algorithms and Data Structure, Object-Oriented Programming, Cloud Computing — GPA: 3.5/4.0

Bachelor of Engineering in Computer Engineering | Gujarat Technological University — *Aug. 2018 – May. 2022*
Coursework: Distributed Systems, Database Management Systems, Machine Learning — GPA: 3.5/4.0

EXPERIENCE

Graduate Teaching Assistant *Graphics Portfolio* — *Sep. 2023 – Dec. 2023*
Northeastern University | Computer Graphics, *C++, OpenGL* — Boston, MA
- Led weekly C++ sessions on shader programming, memory management focusing on low-level memory management.
- Created hands-on teaching projects that improved learning outcomes for **120+ students:**
  - 3D Object Renderer: **Set up core graphics pipeline** (wireframe → shading → transformations)
  - Added interactive camera controls, shadows, normal mapping and texture support using OpenGL/SDL2

Software Development Engineer ⬈ — *Jul. 2022 – Jul. 2023*
Zoyride | Java, Spring Boot, AWS, SQL, React, Docker, Jenkins — Gurugram, India
- Spearheaded and deployed a **web-based platform** for ride booking and fleet management supporting 10K+ daily users using Agile Software Development Life Cycle Model.
- Delivered Spring Boot microservices with SQL queries for ride-sharing and cost-splitting, boosting revenue by 10%
- Wrote automated tests for carpool functionality using Mockito and JUnit achieving 90% test coverage
- Containerized microservices with **Docker** using multi-stage builds, **reducing image size from 2GB to 850MB**
- Engineered **CI/CD pipelines**(Jenkins), reducing deployment time to 15 minutes and streamlining the release process

Software Engineering Intern ⬈ — *May. 2022 – Jul. 2022*
Zoyride | React, Typescript, Express.js, MongoDB, Git — Gurugram, India
- Enabled real-time ride status updates with WebSocket for instant ride progress and ETA notifications
- Cut down API costs by $1,000/month by implementing custom curved polyline algorithms in Google Maps
- Integrated **Stripe payment gateway**, enhancing transaction reliability and **reducing payment failures by 30%**

Software Development Intern ⬈ — *Feb. 2020 – Jun. 2020*
Bytefury Inc. | *C#, ASP.NET, TypeScript, React, Redis, AWS, Git* — Bangalore, India
- **Reduced invoice creation time by 9%** through UI revamp with modern UX principles and updated React components
- Developed payment APIs in ASP.NET adding support for **15 currencies, driving over 3,000 new app downloads**
- Used Redis for **caching complex invoice calculations**, cutting average response time from 2.5 seconds to 800ms

OPEN SOURCE CONTRIBUTIONS & ACHIEVEMENTS

Meta, Microsoft & Elastic | *Java, Android, iOS* ⬈ — *May. 2021 – Jul. 2021*
- **Meta**(React): Fixed rendering bugs and **added Form Data support for file uploads**, benefiting over **100K developers**
- **Microsoft**(FluentUI): Fixed critical DatePicker bug preventing website crashes for **Microsoft 365 platform** and enhanced WCAG compliance across 5 UI components enhancing accessibility for FluentUI users
- Fixed critical bugs, earning a $300 bounty for contributions in the React Native Elements library (**1M downloads**)
- Earned AWS Cloud Architect Certification, designing scalable solutions using EC2, S3, RDS & DynamoDB

PROJECTS

Resume Verification Tool for Recruiters | *Python, React Native* ⬈ — *May. 2024 – Present*
- Created a resume verification app using Python and NLP to **extract and validate data from PDF resumes**
- **Web-scraped and processed GitHub and LinkedIn** to analyze developers' professional history and code contribution
- Achieved a **90% reduction in resume parsing time** decreasing the process from 10 minutes to 1 minute

Peer-to-Peer File Transfer System | *Java, Multithreading, TCP/IP* ⬈ — *Sep. 2023 – May. 2024*
- Built a serverless P2P file transfer app in Java, supporting **300 users** and up to **10,000 transfers per hour**
- Incorporated **parallel upload/download**, prioritized seeding and employed a rarest piece first strategy
- Implemented handshake and message protocol, including choke, unchoke, and interested message types

SKILLS

Languages	Java, Python, Go, JavaScript, TypeScript, C++, C#, HTML5/CSS3
Frameworks	React, Node.js, Spring Boot, ASP.NET, Express.js, Redis, Selenium, JUnit
Developer Tools	SQL (PostgreSQL, MySQL), MongoDB, AWS, Docker, Kubernetes, WebSocket