

Hetan Thakkar

857-200-8726 • thakkar.heta@northeastern.edu • Boston, MA • [LinkedIn](#) • [Portfolio](#)

EDUCATION

Northeastern University

Sept 2023 – May 2025

Master of Science in Computer Science | Massachusetts, USA

Courses: Distributed Systems, Data Structures & Algorithms, Object Oriented Programming

Gujarat Technological University

Aug 2018 – May 2022

Bachelor of Engineering in Computer Engineering | Gujarat, India | GPA: 8.74/10.0

Courses: Operating Systems, Machine Learning, Computer Networks, Database Management System

EXPERIENCE

Graduate Teaching Assistant | Northeastern University

September 2023 – December 2023

- Assisted and graded C++ and OpenGL assignments, exams, and projects for the professor.
- Led code review sessions, office hours and provided solutions for the **computer graphics course**.

Software Engineer | Zoyride

July 2022 – July 2023

- Developed patient management **microservices using Spring Boot**, implementing REST APIs to extract key modules from a legacy monolith architecture and deployed the application on **AWS using Elastic Beanstalk**.
- Developed use case diagrams and designed database tables, providing mapping between relational database tables and object-oriented Java objects using Hibernate.
- Implemented containerization with Docker and orchestration with Kubernetes in an Agile environment, reducing deployment time from 45 minutes to 30 minutes and **improving overall deployment efficiency by 33%**.

Software Developer Intern | Ripen Labs

May 2022 – July 2022

- Refactored** invoice and authentication components for one of their products from **NodeJS to GoLang**, implementing RESTful APIs with Gin framework, resulting in a 30% reduction in average response time for invoice processing endpoints.
- Developed a modular **payment gateway** integration system in **Golang**, supporting multiple providers and wrote comprehensive unit and integration tests using the Go testing package, achieving **85% code coverage**.

Software Engineering Intern | Bytefury

February 2020 – June 2020

- Saved about \$1000 monthly** by incorporating a curved polyline algorithm into Google Maps, eliminating reliance on Google's Direction Polyline API and improving the app's visual appeal.
- Decreased the app size by 20%** by migrating to the new Hermes architecture and using vanilla react native instead of Expo for the cross-platform mobile app that helps adults manage health, finance and work.

ACHIEVEMENTS & PROJECTS

Meta, Microsoft and Elastic | Open Source Contributor

May 2021

- Critical Bug Fix: Resolved a critical interaction bug in React Native Buttons, **impacting 50 million weekly users**.
- Performance Optimization: Optimized the Slider component, boosting page load speed by 40%.
- Code Quality Improvement: Resolved over 50 TypeScript errors in the codebase.
- Feature Addition: Implemented text-transform feature and fixed render bugs in the UI Table component.
- Recognition: Received \$200** appreciation bonus for bug fixes and performance improvements.

SSIP Hackathon | Winner

September 2020

- Developed a **job recommendation system** using Python, implementing TensorFlow for model training and scikit-learn for feature extraction from resume text data.
- Leveraged BERT** (Bidirectional Encoder Representations from Transformers) for advanced contextual embedding of job descriptions and candidate resumes, **resulting in a 35% improvement in recommendation relevance** compared to traditional keyword matching methods.

Distributed P2P-FileSync

January 2024

- Created a **P2P serverless file transfer app in Java**, utilizing multithreading and socket programming.
- Implemented parallel upload/download, prioritized seeding, and rarest piece first strategy, ensuring scalability to **support 300 simultaneous users** and enhancing network efficiency and fault tolerance through multi-threaded TCP socket communication.

SKILLS

- Programming Languages:** Java, Golang, Python, C++, Javascript
- Backend & Cloud:** Spring Boot, MongoDB, SQL (PostgreSQL, MySQL), Redis, AWS (EC2, S3, RDS, ECR), Docker
- Technologies/Frameworks:** Machine Learning, TensorFlow, ReactJS, OpenGL, Linux, Git