

# Nisarg Patel

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## EDUCATION

**Northeastern University**, Boston, MA  
Master of Science in Computer Science

Sept. 2021 – Dec 2022  
GPA: 3.96/4.0

**Dhirubhai Ambani Institute of Information and Communication Technology**, Gandhinagar, India  
B.Tech (Honors) in Information and Communication Technology with Minor in Computational Science

August 2015 – May 2019  
GPA: 8.29/10

## TECHNICAL KNOWLEDGE

**Languages:** Java, Python, Kotlin, Swift, C, HTML  
**Databases:** PostgreSQL, MongoDB, Firebase RTDB, SQLite  
**Tools and Frameworks:** Git, Docker, Django, Spring, JDBC  
**Web and Cloud Technologies:** ReactJS, NodeJS, Hadoop, AWS, Heroku, Google Cloud, Redis  
**Certificates:** [Samsung Software Competency - Professional Level](#)

## WORK EXPERIENCE

**Metro Mobility**, Cambridge, MA  
Senior Software Engineer  
Software Engineer

September 2023 - Present  
March 2023 – August 2023

- Primary Developer of Android, and iOS Applications, Django-based Server, and Fleet Management System.
- Designed and implemented secure communication protocols and APIs between cloud services, firmware, and client apps.
- Developed IoT firmware for cross-platform compatibility and implemented theft detection and prevention algorithms.
- Implemented new features and bug fixes to enhance user experience and functionality.
- Automated CI/CD pipeline with Docker, Heroku, and AWS for efficient deployment and scaling.
- Created a Unified Telemetry Gateway System, simplifying fleet management by integrating various vehicle providers into a single portal.

**Samsung Research and Development Institute**, Noida, India  
Software R&D Engineer

June 2019 – July 2021

- Developed the Samsung Email Android Application with a primary focus on Email Protocols and Account Setup.
- Successfully integrated the Android Device Policies from the Email App to bolster data security for organizations, ensuring the safe handling of sensitive information, and allowing administrators to directly manage devices.
- Elevated the user experience (UX) and user interface (UI) of the application in alignment with OS upgrades.
- Proficiently debugged complex issues, addressed defects, and effectively handled incidents to maintain seamless functionality.
- Awarded the prestigious [Employee of the Quarter Award](#) for excellent performance and contribution towards Samsung Email.

**Samsung Research and Development Institute**, Noida, India  
Software R&D Intern

Jan 2019 – May 2019

- Innovated a payment recommendation engine by seamlessly integrating Samsung Pay with the Samsung Email application.
- Implemented the TensorFlow Lite model within the Email App to perform email classification and extract critical details, such as transaction amounts, facilitating automatic population of Samsung Pay for user convenience.

## TEACHING EXPERIENCE

- Teaching Assistant for CS-5800 Algorithms, Northeastern University, May - December 2022.
- Mentored new interns for projects and given SWC-Professional training at Samsung R&D Institute.
- [Teaching Assistant](#) for CT-303 Digital Communications, DAICT, July - December 2018.

## PROJECTS

**BookKeeper**, A Spring Boot + ReactJS based Distributed Web Application [[Github](#)]  
Technologies: Spring, Java, React, Maven, Docker, Shell Scripting

- Created a simple e-commerce application that follows basic principles of distributed computing.
- Implemented distributed algorithms including Two-Phase Commit, Paxos, and Replicated Data Management.

**Puddle**, Proximity based social media mobile application [[Github](#)]  
Technologies: Android Studio(Java), Firebase, Git

- Developed a full-fledged android application for location-based event and interest groups.
- Used Firebase Real Time Database for storing application data and Firebase Storage for images.