

# Nisarg Patel

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## EDUCATION

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

Sept. 2021 – Present  
GPA: 3.92/4.0

**Dhirubhai Ambani Institute of Information and Communication Technology**

Gandhinagar, India

B.Tech (Honours) in Information and Communication Technology with Minor in Computational Science

August 2015 – May 2019  
GPA: 8.29/10

## TECHNICAL KNOWLEDGE

<b>Languages:</b>	Java, Kotlin, Python, MATLAB
<b>Databases:</b>	MySQL, MongoDB, SQLite
<b>Tools and IDEs:</b>	Git, Docker, Jupyter Notebook, Android Studio
<b>Web Technologies:</b>	HTML, CSS, JavaScript, ReactJS, Redux, NodeJS
<b>Certificates:</b>	<a href="#">Samsung Software Competency - Professional Level</a>

## WORK EXPERIENCE

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

June 2019 – July 2021

- Developed Samsung Email Application primarily involving Email Protocols with emphasis on Exchange ActiveSync protocol and Account Setup module using Android Sync Service and SQLite Database.
- Implemented device policies through Email App for data security of organizations.
- Upgraded UX and UI as per version and OS upgrades (primarily android Q and R OS), debugging complex problems, defect fixing, and incident handling.

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

Jan 2019 – May 2019

- Innovated a payment recommendation engine by integrating Samsung Pay with Samsung Email application.
- Created a Classification software of transactional emails with Naive Bayes classifier and with Artificial Neural Network. Implemented the TensorFlow Lite model in Email App to redirect and auto-fill the amount on Samsung Pay.

## PROJECTS

**Distributed Key-Value Store**, A Java RMI based Multi-Threaded Key-Value Database 🔒

Technologies: Java, Docker, Shell Scripting

- Implemented a distributed system using JAVA RMI that follows basic principles of distributed computing including concurrency, data replication, consistency. Implemented distributed algorithms like Two-Phase Commit Protocol.

**Puddle**, Proximity based social media mobile application 🔒

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.

**RateMyMenu**, Restaurant Menu Item Rating Web application 🔒

Technologies: ReactJS, NodeJS, MongoDB, Redux, Html, CSS

- A ReactJS based menu review portal to rate specific food items of different restaurants using NodeJS server to handle RESTful apis and MongoDB to store the application data in JSON.

**Dungeon Escape**, A Graphical Adventure Game 🔒

Technologies: JAVA, Swing, JUnit, Javadoc

- A role-playing adventure game using programming design principles like Model-View-Controller, SOLID properties, Abstraction and Interfaces, and Command Design Patterns.

## TEACHING EXPERIENCE AND AWARDS

- Teaching Assistant for CS-5800 Algorithms, Northeastern University May 2022 - Present.
- [Teaching Assistant](#) for CT-303 Digital Communications, DAICT, July - December 2018.
- Mentored new interns for projects and given SWC-Professional training at Samsung R&D Institute.
- [Employee of the Quarter Award](#) at Samsung R&D Institute for July - September 2020.