**Nisarg Patel**

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**EDucation**

**Northeastern University**, Boston, MA Sept. 2021 – Present

Master of Science in Computer Science GPA: 3.92/4.0

**Dhirubhai Ambani Institute of Information and Communication Technology** August 2015 – May 2019

Gandhinagar, India GPA: 8.29/10

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

**Technical Knowledge**

**Languages:** Java, Kotlin, Python, MATLAB

**Databases:** MySQL, MongoDB, SQLite

**Tools and IDEs:** Git, Docker, Jupyter Notebook, Android Studio

**Web Technologies:** HTML, CSS, JavaScript, ReactJS, Redux, NodeJS

**Certificates:** [Samsung Software Competency - Professional Level](https://drive.google.com/file/d/1xiVwGOMu-B-Ha0rf9q3uHg31CFrRjWk5/view)

**WORK EXPERIENCE**

**Samsung Research and Development Institute,** Noida, India June 2019 – July 2021

Software R&D Engineer

* 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 Jan 2019 – May 2019

Software R&D Intern

* 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 [](https://github.com/Nisarg-Pat/CS6650-Distributed-Systems-Assignments/tree/main/Project03)

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 [](https://github.com/Nisarg-Pat/NUMAD22Su_Team24_Puddle)

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 [](https://github.com/Nisarg-Pat/CS5610-WebDev-Rate-My-Menu)

Technologies: ReachJS, 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 [](https://github.com/Nisarg-Pat/Dungeon-Escape)

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](https://drive.google.com/file/d/19Kae7m2LzYQeF3DMsAK8qoJ7twmY9L8P/view) for CT-303 Digital Communications, DAIICT, July - December 2018.
* Mentored new interns for projects and given SWC-Professional training at Samsung R&D Institute.
* [Employee of the Quarter Award](https://drive.google.com/file/d/1SFHxormAz97CsKP5msPDPYTBtP2y210z/view) at Samsung R&D Institute for July - September 2020.