**Nisarg Patel**

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**EDUCATION**

**Northeastern University**, Boston, MA Sept. 2021 – Dec 2022

Master of Science in Computer Science GPA: 3.96/4.0

**Dhirubhai Ambani Institute of Information and Communication Technology**,Gandhinagar, IndiaAugust 2015 – May 2019

B.Tech (Honours) in Information and Communication Technology with Minor in Computational Science GPA: 8.29/10

**TECHNICAL KNOWLEDGE**

**Languages:** Java, Python, Kotlin, Swift, C, C++

**Databases:** MySQL, MongoDB, SQLite, Firebase RTDB

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

**Web and Cloud Technologies:** ReactJS, Redux, NodeJS, Hadoop, AWS, Heroku

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

**WORK EXPERIENCE**

**Metro Mobility,** Cambridge, MA April 2023 – Present

Senior Software Engineer

* Primary Developer of Android, and iOS Applications, Django-based Servers, and Fleet Management Systems.
* Designed and implemented secure communication protocols 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 Telemetric Gateway System, simplifying fleet management by integrating various vehicle providers into a single portal.

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

Software R&D Engineer

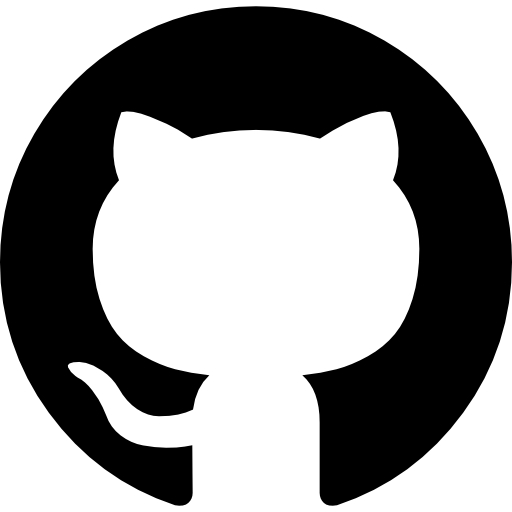
* Developed the Samsung Email Android Application with a primary focus on Email Protocols and Account Setup.
* Successfully integrated the Android Device Policies from the Email App to bolster data security for organizations, ensuring the safe handling of sensitive information, and allowing administrators 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](https://drive.google.com/file/d/1SFHxormAz97CsKP5msPDPYTBtP2y210z/view) for excellent performance and contribution towards Samsung Email.

**Samsung Research and Development Institute,** Noida, India Jan 2019 – May 2019

Software R&D Intern

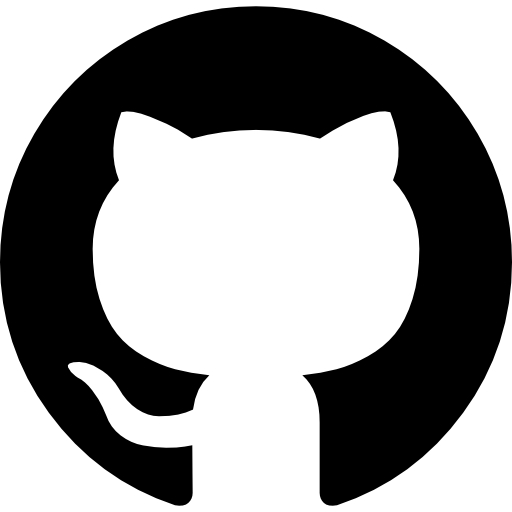
* Innovated a payment recommendation engine by seamlessly integrating Samsung Pay with the Samsung Email application.
* Created a classification software for identifying and categorizing transactional emails.
* Utilized Naive Bayes classifier and Artificial Neural Network techniques for optimal accuracy.
* 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.

**PROJECTS**

**BookKeeper**, A Spring Boot + ReactJS based Distributed Web Application 

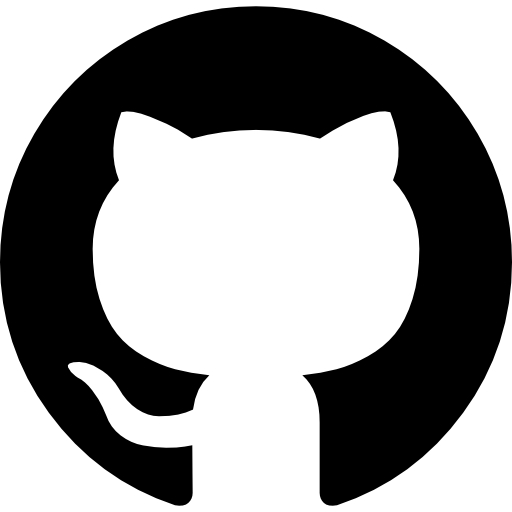
Technologies: Spring, Java, React, Maven, Docker, Shell Scripting

* 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 

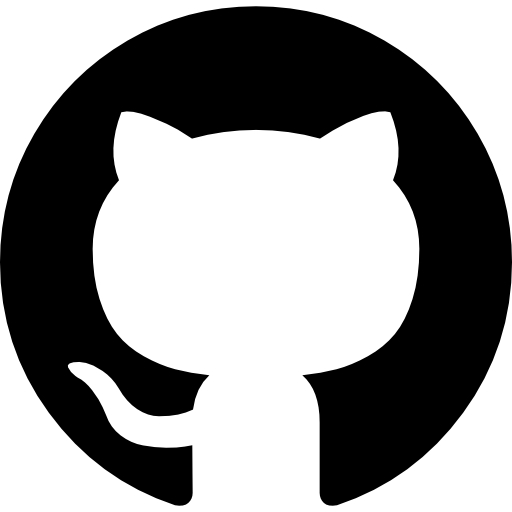
Technologies: Android Studio(Java), Firebase, Git

* 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: 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 

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**

* 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](https://drive.google.com/file/d/19Kae7m2LzYQeF3DMsAK8qoJ7twmY9L8P/view) for CT-303 Digital Communications, DAIICT, July - December 2018.