

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

August 2015 – May 2019
GPA: 8.29/10

TECHNICAL KNOWLEDGE

Languages: Java, Python, C, Kotlin, C++, MATLAB
Databases: MySQL, MongoDB, SQLite, Firebase RTDB
Tools and IDEs: Git, Docker, Jupyter Notebook, Android Studio
Web Technologies: HTML, CSS, JavaScript, ReactJS, Redux, NodeJS
Certificates: [Samsung Software Competency - Professional Level](#)

WORK EXPERIENCE

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

June 2019 – July 2021

- Developed Samsung Email Android Application primarily involving Email Protocols with emphasis on Exchange ActiveSync protocol and Account Setup.
- 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.
- Awarded [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 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.

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, DAIICT, July - December 2018.

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: 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.