

# ARPAN RAKESH PATEL

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Available: May 2023 - Dec 2023

## EDUCATION

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**Northeastern University** | Master of Science in Computer Science **Sep 2022 - Present**  
*Courses - Programming Design Paradigm, Database Management Systems (GPA - 3.33/4)* Boston, MA

**Sardar Vallabhbhai Patel Institute of Technology** | B.E in Information Technology **Jul 2017 - Jul 2021**  
*Courses - Analysis and Design of Algorithms, Software Engineering, Big Data Analytics (GPA - 8.83/10)* Vasad, India

## TECHNICAL SKILLS

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<b>Programming Languages</b>	C, C++, Java, Python, SQL, Dart, Swift, JavaScript
<b>Frameworks</b>	Node.js, JUnit, Flutter, ReactJS, Tailwind, Bootstrap
<b>Development &amp; Database</b>	MySQL, MongoDB, HTML, CSS, Flask, React, Android, FireBase
<b>Tools &amp; Topics</b>	OOP, IoT, API, Notion, n8n, Postman
<b>Cloud &amp; DevOps</b>	Docker, Version Control(Git), CI/CD, Google Cloud Platform, Heroku

## WORK EXPERIENCE

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**Scudo Systems LLP** | Co-founder and Software Developer **Jul 2019 - Jul 2022**  
*Python, Raspberry Pi, IoT, APIs* Ahmedabad, India

- Developed a custom software system using Python3, Raspberry Pi, and IoT hardware to provide real-time tracking and monitoring of motorcycles equipped with Scudo Systems LLP's anti-theft devices which had 90% accuracy.
- Implemented GPS algorithm which provides 10-meter radius accurate location and improves tracking efficiency.
- Conducted extensive testing and debugging for bug-free software with 40% faster response time.

**Snapy Inc** | FullStack Intern **May 2021 - Jul 2021**  
*React, Tailwind CSS* Bangalore, India

- Implemented new features using ReactJS for Snapy Inc.'s platform, refining user experience boosting conversion rates.
- Ensured platform's design consistency resulting in enhanced user satisfaction and listing 100+ products.
- Improved the platform's performance by optimizing code and reducing page load times by 33%.

## ACADEMIC PROJECTS

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**Park up** | *Mobile Application, [Flutter, Google Maps, FireBase, Razorpay Payment Gateway]*

- Developed mobile app using Flutter for a parking system that enables users to find and reserve parking spots in real-time with 60% reduced wait time for finding parking spots.
- Integrated Google Maps and Geolocation with 95% accuracy to display and navigate to reserved parking spots.

**Gym Management System** | *Database Application, [MySQL, Procedures, Triggers, Functions, Python]*

- Designed a robust SQL schema with 10+ tables and 20+ relationships to manage gym members, staff, and inventory.
- Increased data accuracy by 50% with database validation rules and constraints for data integrity.

**Stock Simulator** | *Java Application, [Java, Java Swing, JUnit, Object Oriented Design, XML, JSON, AlphaVantage API]*

- Collaborated on virtual stock simulator for learning stock market with up to 10 mock portfolios, GUI and CLI interfaces, and MVC and Command design patterns.
- Connected with AlphaVantage API which enabled the user to buy more than 1000 shares from the listed companies on the stock market and cached the data to make the application 70% more efficient.

**Quick Launcher** | *Web Extension, [Javascript, HTML, CSS]*

- Built an extension for browsers in JavaScript to enhance user experience and customize 7+ social media handles.
- Accelerated user productivity by 30% by allowing users to switch to the handles without searching on the webpage.

## AWARDS AND RECOGNITION

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- Published research paper "Parkup" as co-author in International Research Journal of Engineering and Technology(IRJET)
- Contributed to OpenSource development of the Flutter Shortcut Widget via "Adopt a Widget" campaign on GitHub.
- Presented talk on Identity Theft at MozFest, an International Conference, educating audience on risks and safeguards.
- Led the Mozilla Campus Club at my campus, co-organized Flutter Vadodara, served as trusted Mozilla Rep.