

Abhay Patel

abhaypatel.jobs@gmail.com | (443)-377-6353 | <https://www.linkedin.com/in/abhaypatel8/> | <https://github.com/abhayypatel>

EDUCATION Rutgers University
New Brunswick, NJ

Bachelor of Science in Computer Science

Graduation: May 2027

Relevant Coursework: Systems Programming, Software Methodology, Systems Architecture

Dean's List 2024-2025

PROFESSIONAL EXPERIENCE

GPA: 3.7

Johns Hopkins Hospital

June 2024 - August 2024

Data Analyst Extern

Baltimore, MD

- Created **Power BI dashboards** to make patient data easier to understand, cutting down report time by **30%**
- Used **Python (Pandas, NumPy)** to find patterns between treatment plans and recovery times
- Wrote scripts to pull data from **clinical databases** using **SQL** and built **ETL pipelines** that sped up processing by **25%**
- Built **ML models** (Random Forest, XGBoost) to predict patient return likelihood, improving early alert accuracy

Resilience Inc.

May 2023 - August 2023

Software Engineer Intern

Tampa, FL

- Helped build the AI engine behind **AIMEE's learning app** using **React Native** and **JavaScript**
- Worked on fine-tuning **AI models** using **HuggingFace Transformers** to improve how well it understood SEL content
- Used **TensorFlow/Keras** and **scikit-learn** to adjust the difficulty of AI-based games based on how users performed
- Worked with other devs, designers, and writers to launch a new game mode that boosted student engagement by **40%**
- Pushed trained models to the cloud using **AWS SageMaker** so the app could handle a large volume of users

PROJECTS

SmartEats – AI Calorie Tracker | *TypeScript, React, Node.js/Express, MongoDB, OpenAI Vision, Docker*

- Built a mobile-first app that converts food photos to instant nutrition facts with the **OpenAI Vision API**
- Developed a **MERN** backend featuring **JWT** auth, Cloudinary image storage, and one-click **Docker** deploys to **Vercel**
- Generated interactive progress charts using **Chart.js** and real-time summaries via **MongoDB** aggregations
- Placed 5th** at RU Hackathon, showing innovation and technical expertise among competitors

Train Reservation System – Java Railway Booking Platform | *Java, JSP, MySQL, JDBC, Apache Tomcat*

- Built a full-stack **Java** web app with **JSP** and **Java Servlets**, supporting **role-based login** and dynamic ticket booking
- Integrated a **MySQL** backend via **JDBC** and deployed the system using **Apache Tomcat**
- Designed an **admin dashboard** to manage stations, train routes, and schedules in **real time**

RUClasses.app – Course-Review Platform | *React, Firebase Auth & Firestore, Material-UI*

- Built a serverless web app using **React + Material-UI** and a **Firebase** backend (**Auth & Firestore**)
- Added secure **Google OAuth**, robust Firestore rules, and offline-first caching with IndexedDB
- Implemented fast fuzzy search and sort with **Fuse.js**; typical renders stay under 100 ms on mobile
- Trusted by hundreds of Rutgers students** each semester to pick classes and professors

LEADERSHIP EXPERIENCE

Phi Sigma Kappa (Vice President) (rupsk.org)

August 2024 - December 2024

- Maintained the fraternity website while using **HTML**, **CSS**, and **JavaScript** to create an attractive webpage
- Successfully led a team in executing philanthropic events with tight deadlines and minimal oversight, including **RUDM**

SKILLS & INTERESTS

Languages: JavaScript, TypeScript, Python, Java, C, C++, HTML/CSS

Frameworks/Libraries: React, Node.js, Express, Flask, Pandas, Bootstrap

Tools/Platforms: Git, GitHub, Linux, Docker, AWS, Firebase, VS Code, Android Studio

Databases: SQL, MongoDB

Interests: DJing, Football, Video Games