

# Abhay Patel

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## EDUCATION

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### Rutgers University

*B.S. in Computer Science*

New Brunswick, NJ

*Sep. 2023 - May 2027*

### Long Reach High School

*High School Diploma*

Columbia, MD

*Aug. 2019 - May 2023*

**Relevant Coursework:** Advanced Data Structures, Advanced Object-Oriented Design, Intro to Computer Science, Principles of Java Programming, Computer Integrated Manufacturing

## TECHNICAL SKILLS

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**Languages:** HTML/CSS, JavaScript, TypeScript, Python, Java, Kotlin, Lua

**Frameworks:** React, Node.js, Express, Flask, Pandas, Selenium, Bootstrap, MaterialUI

**Developer Tools:** Git, GitHub, Docker, Oracle Cloud, Firebase, VS Code, Android Studio, PyCharm, IntelliJ, Eclipse

**Other:** SQLite, MongoDB, Data Structures, Algorithms

## EXPERIENCE

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### Mobile Developer - MESA Competition by Johns Hopkins APL

Oct. 2021 - Mar. 2022

*Johns Hopkins University*

*Columbia, MD*

- Developed a fully functional workout app to address obesity, using Kotlin, Java, and SQLite for data storage
- Implemented engaging user interfaces and smooth navigation using Android Studio and XML
- Utilized RESTful APIs to fetch external data and integrate additional features into the app

### FoodEquity.org - Technology Officer

Jun. 2022 - Present

*501c Nonprofit*

*Ashburn, VA*

- Created a data-driven application for our nonprofit using HTML/CSS/JS, Python, and Pandas to analyze and identify areas in the United States and India where our nonprofit can deliver vegan meals efficiently
- Utilized data visualization techniques to present findings and optimize resource allocation
- Led the technology team, overseeing project development, and coordinating efforts to meet organizational goals

### Coding Club - President

Apr. 2020 - May. 2023

*Long Reach High School*

*Columbia, MD*

- Led the Coding Club, organizing coding workshops and hackathons to foster a passion for technology among students
- Developed coding projects, including web applications and games, to enhance members' technical skills and creativity
- Provided guidance and mentorship to club members, helping them with programming concepts and problem-solving strategies

## PROJECTS

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### Recipe Sharing Web App | *React, Node.js/Express, MongoDB, Git*

- Developed a recipe sharing web application using the MERN stack
- Implemented user authentication and authorization using JSON Web Tokens (JWT) to ensure secure access to the platform
- Utilized MongoDB for efficient database management and storage of recipes and user information
- Enhanced user engagement by implementing various features, including recipe search, favorites, and user reviews
- Designed a responsive and modern UI using Material-UI and styled-components

### Autocomplete AI Web App | *HTML/CSS, JavaScript, Python, Flask, React, OpenAI API, Git*

- Created a web app that leverages OpenAI to auto-complete sentences for users. Used Flask to build a REST API and React to design a user-friendly interface
- Integrated OAuth authentication using Firebase to ensure secure user access and data protection
- Implemented efficient error handling to handle exceptions and enhance the application's stability

### Poker Simulator | *Java, Git*

- Designed and implemented poker mechanics in Java, utilizing object-oriented programming (OOP) principles to model the game's entities and state
- Implemented unit testing using JUnit to verify the accuracy and reliability of the poker simulator, ensuring it produces expected results in different scenarios