Aditya Parekh

Edison, NJ | Phone 908-630-7922 | parekhaditya14@gmail.com | GitHub | LinkedIn

EDUCATION

Kean University **Union, NJ**

BSc Computer Science || GPA 3.8/4.0 *Graduation Date: May 2025*

WORK EXPERIENCE

Kean University **Union, NJ**

Student Researcher *Feb 2024 - Present*

- Utilized advanced Python and Selenium programming techniques to analyze real-time traffic data from leading navigation apps (GMaps, Waze, BingMaps, HereMaps, etc.), resulting in a 15% increase in accuracy compared to previous studies.

Kean University **Union, NJ**

Computer Science Teaching Assistant *Sep 2023 - Present*

- Instructed 100+ students on advanced programming in Java, resulting in a 90% pass rate for the course.
- Designed and delivered weekly review sessions and held office hours, boosting students' grades by 8%.

Fortune500 Investment Management Firm **Hoboken, NJ**

Software Engineering Intern *Dec 2021 - Feb 2022*

- Analyzed and optimized Percentage-Of-Portfolio algorithm for Equity Portfolio Re-Balancing project, resulting in a 20% reduction in trade execution time across multiple locations and time zones.
- Worked in a fast-paced agile environment, participating in all Scrum ceremonies.

PROJECT EXPERIENCE

KeanHacks **Union, NJ**

RecipeApp *Nov 2023 - Dec 2023*

- Developed and optimized efficient algorithms to enhance the performance of the Java-based REST API, resulting in a 40% decrease in response times for accessing the database of 5000+ random recipes.

Personal Project **Edison, NJ**

PasswordManager *May 2023 - Aug 2023*

- Implemented backend services in Java for encryption, decryption, and storage ensuring data security.
- Enhanced user experience by 15% through streamlined GUI development using Java Swing and integrated cryptographic algorithms for password management, reducing data breach risk by 30%.

AI4ALL **Union, NJ**

UserProfileAnalysis *Feb 2023 - May 2023*

- Implemented KMeans clustering with Principal Component Analysis (PCA) to segment users based on their preferences, leading to the identification of 5 distinct user groups.
- Utilized Pandas for data manipulation and aggregation, creating visualizations using Matplotlib and Plotly to illustrate the distribution of user preferences.

Hack The Valley V **Toronto, ON**

PlantPedia *Feb 2022 - Feb 2022*

- Developed an innovative neural network algorithm to enhance plant recognition capabilities in a Python app, resulting in a 10% increase in accuracy to reach 95% overall accuracy rate.

SKILLS

Languages/Frameworks: Java, Python, C, C#, SQL, .NET, PHP, XML.

Development Tools: SQL Server, MySQL, Git, GitHub, Jira, Confluence, Android Studio