Princeton, NJ
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U.S Citizen

SURAJ KACHAM

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EDUCATION

New Brunswick, NJ   **Rutgers University**   **Sep 2021 – Dec 2024**
- B.S. in Computer Science, December 2024. GPA: 3.7
- Undergraduate Coursework: Databases; Algorithms; Data Structures; Comp. Architecture; Software Methodology; Systems Programming; Discrete Math 1 & 2; Linear Algebra; Linear Optimization.

EXPERIENCE

Software Engineer, Intern   **Bank of America**   **June 2023 – August 2023**
- Devised an innovative silence detection algorithm for real-time user call transcription using OpenAI's Whisper, reducing delays by 75% compared to previous methods of analyzing audio every 3 or 5 seconds.
- Designed and implemented an advanced audio feature extraction algorithm for real-time sentiment analysis in IVR systems, leading to a 40% increase in customer satisfaction and a 30% reduction in operational costs.
- Engineered a Natural Language Processing (NLP) solution to summarize a 10-K annual report, reducing reading time by 90% while preserving key insights for efficient decision-making.

Software Engineer, Intern   **Allstate**   **May 2022 – August 2022**
- Developed Python automation scripts that reduced manual testing time by 25%, and consistently achieved a 90% test success rate.
- Streamlined build processes across multiple environments with Jenkins, resulting in a 20% reduction in deployment time and ensuring smooth execution across platforms.
- Analyzed Authorization service issues using Postman, fostering cross-functional collaboration.
- Delivered a compelling presentation to the team, advocating for the adoption of the *PASETO* security framework over *JWT*, resulting in a 20% increase in security readiness at Allstate.

Treasurer   **Oxfam Club At Rutgers University**   **September 2022 – Present**
- Managed the club's finances by allocating money strategically towards food, clothing, and essential supplies.
- Collaborated with club members to organize fundraising events and awareness campaigns to support Oxfam's initiatives.

TECHNICAL EXPERIENCE

Projects
- **Transaction Manager** (2023). An object-oriented system for managing bank accounts, allowing opening/closing accounts, depositing/withdrawing funds, and calculating interest/fees. Java, JavaFX, Maven
- **Weather Report** (2022). GUI-based application that fetches accurate weather data for over many cities. Python, Tkinter, RESTful APIs

CERTIFICATIONS

- **AT&T Summer Learning Academy Extern (2021):** Gained a better understanding of the telecom industry.
- **Artificial Intelligence Foundations – Machine Learning (2020):** Acquired core AI and ML concepts.

Languages and Technologies

- Java; Python; C; SQL; XML
- Jenkins; Postman; JUnit; Android; JavaFX; Streamlit; Maven; Gradle
- Atlassian Confluence; VersionOne
- Visual Studio Code; IntelliJ; Eclipse, Microsoft SQL Server, Microsoft Office Suite