Aditya Parekh

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SUMMARY

- Proficient in **Java, Python, C, SQL, SAS**, with expertise in **data analytics, machine learning, artificial intelligence**, and **software development**.
- Strong record **leading** research projects and **cross-functional team collaboration**.

ACADEMICS

Kean University, USA | Computer Science   Jan 2023 – Present
Awards: Dean's Honors List
Activities: Association of Computing Machinery (ACM), AI4ALL

University of Toronto, Canada | Computer Science   Sep 2021 – Dec 2022

SKILLS

Programming/Scripting Languages: Python, C, Java, SQL, SAS.
Development Tools: SAS, VS .Net, VS Code, Eclipse, IntelliJ, GitHub, PowerBI, Tableau, Jira, Confluence, Git, Visio.
Concepts: AWS (Amazon EC2), SDLC, Agile Methodologies (Scrum), Test Driven Development.

EXPERIENCE

Kean University

Supplemental Instruction Leader   Sep 2023 – Present
- Conducted supplemental instruction for **CPS 2231 – Object-Oriented Programming in Java**, assisting students in mastering **Java** programming concepts.
- Designed and delivered weekly **review sessions** and held **office hours**, fostering an engaging learning environment and collaborating with the course instructors.

Technologies: Java, OOP.

Computer Science Tutor (Code Samurai)   Sep 2023 – Present
- Computer Science tutor at Kean University, assisting students in **Data Structures, Java, Python, C, and SQL**.

Technologies: Java, Python, C, SQL.

AI4ALL | DiscoverAI Participant | Lead Developer   Feb 2023 – May 2023
- **Led** a group of 7 on an **Artificial Intelligence** research project to imitate the Instagram personalized advertisement algorithm using an unsupervised **K-Means** clustering machine learning algorithm.
- Learned about the applications and fundamental technical concepts of AI including the different types of **machine learning** and **data analytics**. Investigated ethical implications related **to data processing** and **AI implementation**.

Technologies: Python, Pandas.

Rogers Communications | Data Analyst Intern   May 2022 – July 2022
- **Gathered and analyzed data** on customer interaction with Rogers' website from 2020-2022 to determine the level of customer satisfaction achieved through the company's digital platforms.
- **Retrieved, analyzed, modified, and visualized digital data** using **SAS** and **SQL**, eventually delivering an interactive dashboard on **PowerBI** for the team to make informed decisions.

Technologies: SAS, SQL, PowerBI, Tableau, Agile environment.

Fortune 500 Investment Management Firm | Software Engineer Intern   Dec 2021 – Feb 2022

- Worked with cross-functional IT & business teams across multiple locations and time zones on **Equity Portfolio Re-Balancing** project leveraging **Percentage-Of-Portfolio algorithm.** Loaded order files through ETL process, computed order quantities, and generated trade files to be executed by **Aladdin-Blackrock** system.
- Supported L1-L3 teams, **documenting** processes, participating in **agile Scrum** ceremonies in a dynamic environment.

Technologies: SQL, Tidal, JSON, TFS, Jira, Confluence, Agile environment.

HACKATHON PROJECTS

GRAFFIT   [GitHub](#)

- Designed a **C**-based mock social media platform, employing **graphs**, **recursion** and **BFS** algorithm for users to manage friend and brand connections.

PlantPedia   [GitHub](#)

- Developed a **Python** app for plant recognition via **unsupervised learning**, achieving 95% accuracy with 108 plant species dataset.

CERTIFICATIONS

Lyft | Back-End Engineering Virtual Experience Program

- Collaborated on Lyft Rentals project in **Python**, emphasizing clean design, codebase refactoring, **TDD**, and **unit tests** for a user-friendly, reliable component overhaul.

Tasks Completed: Software Architecture, Refactoring, Unit Testing, Test-Driven Development.

JPMorgan Chase & Co. | Software Engineering Lite Virtual Experience Program

- Completed tasks simulating an engineering ticket for the credit-card rewards department, including codebase collection, branch creation, **Java** development, unit testing, and pull request submission, leveraging **Git** and **GitHub**.

Tasks Completed: Modifying an existing system, Unit testing.

Electronic Arts | Software Engineering Virtual Experience Program

- Optimized and debugged **C++** code for The Sims 4 game mechanics within a game engine, as part of hands-on software engineering projects.

Tasks Completed: Python, C++, Game Engine Technology, Mitigating Cyber Vulnerabilities.

Accenture | Developer Virtual Experience Program

- Developed interactive modules, addressing real-world development scenarios, and optimized scalability and cost-efficiency for Digital Healthcare software using **IaaS** and **PaaS cloud infrastructure** solutions.

Tasks Completed: Design changes to an existing architecture, Scale on-premise system infrastructure to the cloud, UAT.

EXTRACURRICULAR

NJ-GMIS TEC Conference | Student Attendee   April 2023

- Representative at **NJ-GMIS TEC** Conference, participating in workshops on cybersecurity and cloud computing, and later sharing insights with peers to foster collaborative learning and introduce AI and data analytics trends.

LimitlessMinds | Academic Tutor   June 2020 – Aug 2021

- Tutoring children (k-8) amidst the pandemic in STEM-related subjects, fostering learning in a virtual setting.