SAAHIL PATEL

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EDUCATION

Rutgers University School of Arts and Sciences • New Brunswick, NJ September 2020 – December 2023
B.S. Computer Science GPA: 3.7/4.0

HIGHLIGHTED COURSEWORK

Data Structures, Computer Algorithms, Distributed Systems, Artificial Intelligence, Computer Architecture, Data Science, Unity VR and Game Design, Android App Development, Discrete Math I & II, Linear Algebra, Multivariable Calculus

WORK EXPERIENCE

Colgate-Palmolive – Piscataway, NJ September 2023 - December 2023
Software & Application Development Intern
- Developing a service to validate and update internal employee departments using the Veeva API, BigQuery API, and PostgreSQL
- Designing and implementing a security tool to restrict and grant employees temporary access to vaults, safeguarding critical and sensitive user data

Amazon – Austin, TX May 2023 – August 2023
Software Development Intern
- Optimized the storage of shipment routes to a cache by intelligently reducing expensive API calls by 99.99%, resulting in a cost savings of $1,833,000 in compute resources
- Documented a critical code deployment process with steps and explanations of tooling, such as creating a custom dependency graph, building code changes, and deploying code in a production-simulated environment
- Created a script to delete 40 million rows of bad data from a DynamoDB Table to unblock the team's pipeline during outages
- Removed redundant capacity caps causing the under-utilization of Amazon-owned trucks and planes when determining viable ship options during Prime Day events

Colgate Palmolive – Piscataway, NJ January 2023 – May 2023
Software & Application Development Intern
- Developed the 'Veeva User Manager' to automate user and employee management for 500+ clinical studies and claims
- Restructured statistician reports for better clarity and enhanced user-friendliness through strategic editing
- Implemented dynamic triggers on clinical study dashboards for adaptive data displays and conditional item displays

Oracle (OCI) – Austin, TX May 2022 – August 2022
Software Engineering Intern
- Developed a script to remotely retrieve telemetry information from 30,000 Oracle devices to analyze workload and test performance capabilities
- Redesigned Oracle's API management platform to integrate with cloud-native Java libraries, reducing licensing and third-party software expenditure by 20%

United Parcel Service (UPS) – Mahwah, NJ June 2021 – May 2022
Software Engineering Intern
- Scaled the remediation of security vulnerabilities across 60 applications by automating the encryption of clear-text passwords
- Audited load balancers to offload 20 web farms, including 100 servers that were no longer in use
- Utilized Grafana Dashboards and Prometheus to examine memory, disk, and CPU usage of 100 servers to prevent outages during times of peak traffic

PROJECTS

Athena - *Python, Google Cloud APIs*
- Won an award for best use of Google APIs and impact on students
- Constructed a modified SMMRY algorithm to summarize YouTube videos in a few sentences
- Uses Google Cloud Storage to store text and audio files, Google Speech Recognition to create transcripts, and NLTK for natural language processing

Snack Track - *Java, Google APIs, Android XML, Android Studio*
- Implemented 2 Google APIs for cloud storage and image labeling features to make a more user-friendly interface
- Allows the user to store and analyze dietary habits within the five primary food groups
- Processes captured images using a Google API for image labeling to make it easy to store food items in the database

SKILLS

- Programming languages: Java, Python, JavaScript, Kotlin, HTML, C#, C, Powershell
- Software: AWS, React, Docker, Git, JUnit, Spring Boot, Google Cloud, Flask, Veeva API, Visual Studio, Android Studio, Unity