Samhita Chunduru

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EDUCATION

Stevens Institute of Technology — Hoboken, NJ
Computer Science B.S. — Sep 2022 – December 2025

Relevant Coursework: Algorithms, Data Structures, Discrete Structures, Computer Architecture and Organization, Systems Programming, Software Development Process, Human-Computer Interaction, Linear Algebra, Probability and Statistics, Intermediate Statistics, Security/Privacy and Society (IP), Database Management Systems (IP), Knowledge Disc. & Data Mining (IP), Theory of Computation (IP)

RELEVANT EXPERIENCE

Bank of Montreal | NYC, NY — June 2024 – Aug 2024
Software Developer Intern
- Developed advanced support and automation solutions for Securities Lending by creating Python scripts using Data Structures to monitor Loanet MQ logs and identify date rollover delays, ensuring decreased transaction failures, and increased system reliability.
- Engaged in all stages of software development, from Task Analysis to Prod Deployment.
- Elevated team efficiency through the use of Python and SQL to automate ETL procedures, lowering manual intervention and human error, streamlining database operations, and facilitating the quick identification of discrepancies in code.

Business Analyst Intern — June 2023 – Aug 2023
- Enhanced Stock Loan process monitoring dashboards with Python and SQL, improving operational efficiency and decision-making.
- Automated SLRM tracking for BMO Capital Markets by incorporating Python and SQL to streamline the ETL process, cut down on errors and human error, improving the accuracy of financial reporting.
- Developed a Python flat file parser for Loanet Reports by using Python and PANDAS-based automated data loading that minimizes human error and involvement while guaranteeing reports are available for analysis on time.

PROJECTS

InnovateX — Sep 2023 – May 2024
- Implemented object detection and real-time decision-making to ensure safety and real-time control during autonomous vehicle operations, guaranteeing reliable performance.
- Conducted regular updates and rigorous testing to maintain consistent performance, ensuring the software is highly reliable and readily available.
- Developed the software using the Waterfall Method, including a demo showcasing capabilities and safety benefits.

EzReadz Chrome Extension — March 2024 – May 2024
- Developed a Queue data structure in JavaScript to manipulate web page text elements, improving user retention by offering convenient text customization features.
- Conducted ANOVA testing with R to assess the statistical significance of the extension, revealing a 37% boost in reading retention.

Music Recommender — December 2022
- Created a music recommender system using imperative programming and mutable data types, which allows users to input preferences to output recommendations of other artists and bands similar to the given input.
- Enhanced the system with features such as displaying the most popular artist, showing how popular the most popular artist was, identifying which users liked the most artist, and implementing a save and quit function, improving the overall user experience.

ADDITIONAL EXPERIENCE

Web Developer | Philly Codefest | Philadelphia, PA — April 2024
- Designed and constructed a user-friendly website that offers insurance cost estimates for Philadelphia, PA based on regional crime and accident data.
- Implemented a tool for estimating insurance costs using JavaScript, giving consumers access to precise and customized estimates.
- Curated and integrated resources for users to access additional information and support related to insurance and local crime statistics.

SKILLS

Programming Languages: Python, Java, JavaScript, C++, C, Assembly (ARM64), R, SQL, CSS, HTML, OCaml
Tech/Tools: JIRA, Confluence, Excel, LaTeX

LEADERSHIP

Co-founder of Stevens Indian Dance Team — January 2024 - Present
- Established and led the college dance team, fostering a collaborative and inclusive environment for members.
- Organized and coordinated regular practice sessions and workshops, ensuring high levels of participation and engagement.
- Promoted the team through social media, campus events, and collaborations with other student organizations, increasing visibility and membership.