

SUHAAS KANNEGANTI

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EDUCATION

University of Virginia

B.A. in Computer Science, Minor in Data Science | GPA: 3.71

Charlottesville, VA

August 2021 - December 2024

Thomas Jefferson High School for Science and Technology

Advanced Studies Diploma | GPA: 4.41

Alexandria, VA

August 2017 - June 2021

Relevant Coursework: Data Structures and Algorithms, Computer Systems, Software Development, Artificial Intelligence, Database Systems, Foundations of Machine Learning, Discrete Math and Theory, Data Science Systems, Intro to Cybersecurity

Skills: Java (Java FX, Mockito), Python (Django, Pandas, NumPy), JavaScript (React, Node.js, Express, Joi), SQL (PostgreSQL, Azure MySQL), C++, HTML, CSS, AWS, MongoDB, Agile Workflow, GitHub Flow, Jira

EXPERIENCE

Fannie Mae

Software Engineering Intern

Reston, VA

June 2024 - Present

- Developed, maintained, and optimized existing peer-to-peer (P2P) enterprise data applications managing internal, housing, mortgage, and financial data as a part of the **Big Data** team.
- Redesigned a **Java Spring** application for mortgage loan data to improve performance through multithreading and hashing, achieving a 40% reduction in processing time and improved user-experience for 5+ company teams.
- Implemented deserialization classes for parsing complex Excel and JSON data into **Java beans** through reflection, facilitating efficient data manipulation and processing.
- Converted existing **AWS Lambda** functions to **Python**, reducing cold start times and operating costs, enhancing overall performance and scalability of the serverless architecture.
- Researched and employed **machine learning** for automatic data set tagging, boosting search efficiency of enterprise databases.

East Point Energy and Equinor

Systems Optimization Associate

Charlottesville, VA

June 2023 - August 2023

- Analyzed **Salesforce** data to identify optimal energy storage locations nationwide, balancing cost efficiency and maximizing revenue.
- Wrote **Python** scripts to extract and manipulate Salesforce data, employing **SQL**-like queries to perform data analysis and reporting.
- Integrated Salesforce data with other systems utilizing Python, automating repetitive tasks and enabling data-driven decision-making.

University of Virginia Department of Computer Science

Lead Undergraduate Teaching Assistant

Charlottesville, VA

August 2022 - Present

- Facilitated support to over 150 students per semester for CS 3140 (Software Development Essentials) in debugging and testing Java code, leveraging advanced tools such as **JavaFX**, **Mockito**, **Hibernate**, and **Gradle** to strengthen software development proficiency.
- Crafted and delivered engaging lectures to audiences of up to 400 students, clarifying subjects such as Object-Oriented Decomposition, UML Diagrams, and Software Design Principles, contributing to a noticeable improvement in student comprehension.

RELEVANT PROJECTS

- RealTime (Present):** In the process of developing a location-based app allowing users to drop pins on a global map, share photos, and write detailed experiences, leveraging Google Maps API and real-time data updates.
- Stock Dashboard (June 2024):** Designed a web application replicating a simplified Robinhood dashboard for real-time stock ticker information using **React**. Built an **Express** and **Node.js** back-end server with **Joi** for input validation and **CORS** for data fetching.
- TrustTrace (April 2024):** Developed a **Django**-based web application for anonymous honor code violation reporting. Deployed secure Google API login for various user roles. Built a robust backend with **Python** and **PostgreSQL**, and continuous integration via **GitHub Actions**. Integrated **Amazon S3** for secure cloud storage of diverse file types.
- Actor Casting Analysis (May 2023):** Created a scalable database schema in **Azure MySQL** for actor and film data. Utilized **MongoDB** for unstructured data and constructed a data lake leveraging Azure DBFS. Automated **ETL** processes from CSV and JSON files, creating **SQL** queries and **Python** scripts in Databricks for data analysis.

LEADERSHIP

Refurnished (@UVA)

Technology Director

Charlottesville, VA

December 2022 - Present

- Promoted a student-led 501(c)(3) non-profit organization focused on redistribution of furnishings to local households.
- Led other members to explore innovative technological approaches to optimize and streamline Refurnished's operational processes.
- Revamped organization's website by adopting modern web technologies such as **HTML** and **CSS**, refining its user interface and leading to a 120% website viewership increase.