

Albert Yuan

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EDUCATION

Duke University, Durham, NC

Expected May 2023

B.S. in Computer Science, Concentration in Software Systems

Minor in Chemistry | GPA: 3.8 | Dean's List (2019, 2020)

Relevant Coursework

Data Structures and Algorithms, Software Design and Implementation, Introduction to Computer Systems, Advanced Algorithms, Operating Systems, Database Systems, Discrete Math for Computer Science, Linear Algebra, Differential Equations

EXPERIENCE

Algorex Health Technologies, Boston MA

March 2021– August 2022

Software Engineer Intern

- Created a model to locate nearby train and bus stations within a given radius for each client member using Spatialite SQL
- Maintained and upgraded the data lake with bash and python which processed and standardized multiple file formats into SQL databases
- Built the semantic data lake in python to run and analyze SQL queries to maintain every created tables' data provenance
- Refactored data models from SQLite to PrestoSQL to expedite company product delivery time
- Migrated data models and the data lake to be command line accessible and pip installable in Linux using python Poetry
- Assisted in the design and development of input and output contracting to check for valid inputs and outputs during model runs
- Ran data models on a large-scale member rosters for multiple healthcare clients

Duke University, Durham NC

Spring 2022 – Present

Computer Science Teaching Assistant

- Led recitation and held office hours for *Introduction to Computer Systems* to help students understand concepts related to system programming and computer organization
 - Graded weekly labs assignments, problem sets, and exams
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SKILLS

Coding Languages: Python, Java, C, R, Bash, HTML, CSS

Database Systems: SQLite, Presto SQL, PostgreSQL

AWS: Athena, Glue, S3

Tools: Git, LaTeX, Vim, tmux, Markdown, Adobe Photoshop, Adobe Premier Pro

Languages: Intermediate Chinese and Spanish