Albert Yuan

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EDUCATION

Duke University, Durham, NC — Expected May 2023
B.S. in Computer Science
GPA: 3.8 | Dean's List (2019, 2020)

Duke University, Durham, NC — Expected May 2024
Masters in Electrical Engineering

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 a file management system with bash and python. Processed and standardized client data into SQL databases
- Built a semantic data lake in python to run and analyze SQL queries to keep track of every created tables' data sources
- Created data models with PrestoSQL to be used by AWS tools (S3, Athena) to expedite company product delivery time for large scale populations
- 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 protocols for validating client data and output tables
- Performed client specific engineering 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

SKILLS

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