Albert Yuan

919-450-5658 | albertlyuan@gmail.com | github.com/albertlyuan | linkedin.com/in/albertlyuan

EDUCATION

Duke University, Durham, NC   *Expected May 2023*

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

B.S. in Computer Science, Concentration in Software Systems; Minor in Chemistry

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 Algorex Data Lake which processed and standardized multiple file formats into SQL databases
- Built the Algorex Semantic Lake which was used to run and analyze SQL queries to maintain every created tables' data provenance
- Ran Algorex models on the largest member roster in company history (5 million members) to provide a benchmark for a client
- Refactored existing Algorex models from SQLite to PrestoSQL to expedite company product delivery time
- Assisted in the design and development of input and output contracting to ensure valid inputs and proper output cardinality during model runs
- Assisted in the migration of all Algorex models and the Algorex Data Lake to be command line accessible and automatable in Linux

Duke University, Durham NC   *Spring 2022 – Present*
Teaching Assistant
- Graded exams, held weekly office hours and recitation in CS210: Introduction to Computer Systems
- Helped students understand C, pointers, assembly language, caches, memory

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