

# Albert Yuan

919-450-5658 | albertlyuan@gmail.com | [github.com/albertlyuan](https://github.com/albertlyuan) | [linkedin.com/in/albertlyuan](https://linkedin.com/in/albertlyuan)

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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

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## 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 which processed and standardized multiple file formats into SQL databases
- Built the semantic data lake 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