

Albert Yuan

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EDUCATION

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

May 2023

Duke University, Durham, NC
Masters in Electrical Engineering with a concentration in Machine Learning

Expected May 2024

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, Vector Spaces, Random Signals and Noise, Deep Neural Nets

EXPERIENCE

N1 health, 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

Duke University, Durham NC

January 2022 – December 2023

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
- Created and graded weekly labs assignments, problem sets, and exams

University of North Carolina, Chapel Hill NC

November 2023 – Present

Computational Science Programmer

- Developed pipelines for analysis on genome sequencing data
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SKILLS

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

Database Systems: SQLite, Presto SQL, PostgreSQL,

AWS: Athena, Glue, S3

Tools: Git, LaTeX, Vim, tmux, Markdown, Firebase, React

Languages: Intermediate Chinese and Spanish