Albert Yuan

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EDUCATION

Duke University, Durham, NC   Expected May 2024
Masters in Electrical Engineering with a concentration in Machine Learning

Duke University, Durham, NC   May 2023
B.S. in Computer Science
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, Vector Spaces, Random Signals and Noise, Deep Neural Nets, Probabilistic Machine Learning, Signal Detection and Estimation Theory

EXPERIENCE

University of North Carolina, Chapel Hill NC   November 2023 – Present
Computational Science Programmer
- Developed pipelines for analysis on genetic data from UK Biobank

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

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

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, Markdown, Firebase, React,
Languages: Intermediate Chinese and Spanish