

Hello! I am a Junior at Brown University studying Computer Science and Applied Mathematics. My interests include mathematical modeling, machine learning, and game theory, among others. Outside of academics, I enjoy discovering new music, reading, skiing, watching basketball, [video editing](#) and playing ultimate. I currently play for Brown's team, [Brownian Motion](#), which finished second overall at College Nationals this past May. Please reach out with any questions!

SKILLS

Languages	Python, C++, Java, C, Bash, MATLAB, HTML, CSS
Tools	Git, SFTP, \LaTeX , Vim, tmux, Markdown, Make, Jupyter
Database Systems	PostgreSQL, SQLite, AWS Athena & S3

TECHNICAL EXPERIENCE

Software Engineering Intern <i>N1 Health</i>	Aug 2020 — Sep 2022 <i>Boston, MA</i>
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- Implemented core N1 Data Lake pipeline, involving parsing client data into csv, processing csv to remove bad data, writing data to SQLite databases and parquets, and uploading data to AWS S3
- Wrote code to collect and visualize aggregate statistics and run background analysis on parsed client data to streamline downstream data science process
- Migrated N1 Data Lake and Model engine from their own repositories into N1 master repository, including refactoring both into separate python packages, to drastically simplify code base and increase code readability

Research Intern <i>North Carolina School of Science & Math</i>	Summer 2018 <i>Durham, NC</i>
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- Researched, implemented, and compared the performance of various algorithms applied to the Traveling Salesman Problem
- Final presentation can be found [here](#)

Software Development Intern <i>Pratt School of Engineering, Duke University</i>	Summer 2017 <i>Durham, NC</i>
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- Contributed to the [Anaerobic Digestion Pasteurization Latrine](#) Project, designed to "provide clean, sustainable, odor-free latrines for communities of 20-50 people with no water supply or energy source required"
- Wrote C code deployed to latrines in Kenya and the Philippines to regulate their digestive processes and transmit real time data

EDUCATION

Bachelor of Science in Applied Mathematics & Computer Science <i>Brown University</i>	2024 — Expected <i>Providence, RI</i>
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- Cumulative GPA: 3.90
- Relevant CS Coursework: Data Science, Cryptography, Graphics, Machine Learning, Systems, Data Structures & Algorithms
- Relevant Math Coursework: Linear Algebra, Probability & Statistics, Applied ODEs, Applied PDEs, Numerical Optimization

Certificate of Secondary Education <i>C E Jordan High School</i>	Jun 2019 <i>Durham, NC</i>
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PROJECTS

Filmsplice <ul style="list-style-type: none">Wrote a utility to automatically download ultimate game film clips, splice them together, and upload them to YouTubeSee details at filmsplice.calnight.in	Python
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Minecraft-Esque Procedural Terrain Generation <ul style="list-style-type: none">Implemented block rendering using OpenGL pipelineImplemented biome shape and type assignment using Voronoi Diagrams and Perlin noiseSee details on GitHub	C++
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Brownian Motion Website <ul style="list-style-type: none">Responsible for maintaining the Brown Ultimate website	HTML
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ACTIVITIES

Social Chair — <i>Brown Ultimate Frisbee</i>	2020 — Present
National Merit Scholarship Finalist	2019
Captain and President — <i>Jordan High Ultimate Frisbee</i>	2018 — 2019
Captain and Treasurer — <i>Jordan High Ultimate Frisbee</i>	2017 — 2018