

Hello! I am a Junior at Brown University studying Computer Science and Applied Mathematics. My interests include mathematical modeling, optimization, machine learning, and game theory, among others. I currently play for Brown's Ultimate Frisbee team, [Brownian Motion](#), which finished second overall at College Nationals this past May.

### SKILLS

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

### TECHNICAL EXPERIENCE

<b>Software Engineering Intern</b> <i>N1 Health</i>	<b>Aug 2020 — Sep 2022</b> <i>Boston, MA</i>
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- Implemented core N1 Data Lake pipeline, standardizing data ingestion process and reducing formatting errors at analysis time by 80%. Automated parsing and cleaning client data into csv, writing to SQLite databases and parquets, and uploading data to AWS S3
- Created utilities to collect and visualize aggregate statistics and run background analysis on parsed client data to expedite downstream data science process, decreasing time to create deliverables by 20%
- Decreased onboarding time by 1 week by refactoring N1 Data Lake and Model engine from their own repositories into separate python packages within N1 master repository, drastically simplifying code base and increasing code readability

<b>Research Intern</b> <i>North Carolina School of Science &amp; Math</i>	<b>Summer 2018</b> <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](#)

<b>Software Development Intern</b> <i>Pratt School of Engineering, Duke University</i>	<b>Summer 2017</b> <i>Durham, NC</i>
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- Wrote C code deployed to latrines in Kenya and the Philippines to regulate their digestive processes and transmit real time data for the [Anaerobic Digestion Pasteurization Latrine Project](#)
- Decreased downtime frequency by 30% by implementing logging functionality

### EDUCATION

<b>Bachelor of Science in Applied Mathematics &amp; Computer Science</b> <i>Brown University</i>	<b>2024 — Expected</b> <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

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

<b>Filmsplice</b> • Wrote a utility to automatically download ultimate game film clips, splice them together, and upload them to YouTube • See details at <a href="#">filmsplice.calnight.in</a>	<b>Python</b>
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<b>Minecraft-Esque Procedural Terrain Generation</b> • Implemented block rendering using OpenGL pipeline • Implemented biome shape and type assignment using Voronoi Diagrams and Perlin noise • See details on <a href="#">GitHub</a>	<b>C++</b>
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<b>Brownian Motion Website</b> • Responsible for maintaining the <a href="#">Brown Ultimate</a> website	<b>HTML/JS</b>
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### ACTIVITIES

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