

Hello! I am a Senior at Brown University studying Computer Science and Applied Mathematics. My interests include mathematical modeling, optimization, machine learning, and graphical topics like ray tracing and rendering. I currently play for Brown's Ultimate Frisbee team, [Brownian Motion](#), which finished fifth overall at College Nationals this past May.

SKILLS

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

TECHNICAL EXPERIENCE

Summer Analyst <i>Atlantic-ACM</i>	Summer 2023 <i>Boston, MA</i>
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- Wrote a [python utility](#) to expedite building repetitive slides by automatically pulling Excel data and populating a template slide
- Leveraged analytical skills to assess Business Connectivity survey responses and distill data into meaningful slides
- Conducted extensive market research on diligence projects to help determine sizing and share

Software Engineering Intern <i>N1 Health</i>	Gap Year 2020-21, Summer 2022 <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

Software Development Intern <i>Pratt School of Engineering, Duke University</i>	Summer 2017 <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

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	Python
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- Wrote a utility to automatically download ultimate game film clips, splice them together, and upload them to YouTube
- See details at [filmsplice.calnight.in](#)

Minecraft-ESque Procedural Terrain Generation	C++
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- Implemented block rendering using OpenGL pipeline
- Implemented biome shape and type assignment using Voronoi Diagrams and Perlin noise
- See details on [GitHub](#)

Brownian Motion Website	HTML/JS
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- Responsible for maintaining the [Brown Ultimate](#) website

ACTIVITIES

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