

Education

Georgia Institute of Technology (Remote)	Jan 2024 – 2026 (expected)
Master of Science: Computer Science w/ Machine Learning Specialization	GPA: 4.0
University of California, San Diego	Graduated: June 2021
BS/MS: Chemical Engineering	GPA: BS – 3.93 (Magna Cum Laude) MS – 3.86

Work Experience

Illumina (Medical Device Manufacturing)	San Diego, CA
Process Development Engineer I, II	June 2021 – Present
<ul style="list-style-type: none">Developed Python scripts using pandas and NumPy to effectively parse large volumes of data from tool logs, enabling extraction of critical information to facilitate data-driven decision makingIntegrated scripts with Tableau for dynamic data visualization, collaborating with cross functional stakeholders to identify opportunities for dashboarding.Leveraged SQL to query manufacturing databases and extract relevant data, facilitating the investigation of production issues	

School Projects

Machine Learning Financial Trading Strategy (CS7646)	Apr 2024
Python	
<ul style="list-style-type: none">Developed a machine learning-based trading strategy using real-world financial data and technical stock indicatorsUsed Python to implement a bag learner with random forest classification algorithms to predict optimal trading actions based on standardized and labeled indicator dataEvaluated strategy against a manual rule-based approach by comparing returns across both training and test datasetsTuned learner and indicator parameters through meticulous analysis of performance metrics such as returns and training timeSuccessfully achieved a 5% return over a 1-year test dataset	

Personal Projects

Shredders	May 2024 - Present
JavaScript, HTML, CSS, React.js, PostgreSQL, Express, Tailwind CSS	
<ul style="list-style-type: none">Developing a full stack web application for a social network where users can add friends and plan snowboarding trips togetherImplemented user authentication with JWT and PostgreSQL database integration	
AllFields	Aug 2023 – Nov 2023
JavaScript, HTML, CSS, React.js, Firebase	https://allfields-570a5.web.app/
<ul style="list-style-type: none">Developed a CRUD web app inspired by AllTrails for soccer enthusiasts where users can look up soccer fields, post reviews about field conditions, and share imagesCreated an interactive and responsive frontend with React and Styled Components, with filter views and a map display through integration with the Google Maps APIIntegrated user profiles with avatar customization, favoriting, and recent activityUtilized Firebase for the backend, including Authentication, Realtime Database for data management, and Cloud Storage for images	
Where's Waldo	May 2023 – Jul 2023
JavaScript, HTML, CSS, React.js, Jest	https://lindavid1998.github.io/wheres-waldo
<ul style="list-style-type: none">Developed an interactive photo-tagging web game based on Where's WaldoImplemented Jest for comprehensive testing, ensuring robust functionality and minimizing bugsLeveraged React Redux for centralized state management	

Skills

Programming:	Python, Git, GitHub, JavaScript, HTML, CSS, React, Jest, APIs, Express, SQL, Mongoose, MongoDB, Node.js, PostgreSQL, JWT, Express, CART, Q Learning, PgAdmin, Tableau, Tailwind, Jira
Certificates:	Georgia Tech's Data Structures and Algorithms (Java)