

Allen Dufort

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EDUCATION

Brown University

Candidate for Master of Science in Computer Science

Bachelor of Science in Computer Science, GPA: 3.85

Providence, RI

Expected May 2025

May 2024

TECHNICAL SKILLS

Languages: Python, SQL, Golang, JavaScript, Java, HTML, CSS, C

Entry-level Knowledge of Frameworks: Terraform, Apache Spark, MongoDB, AWS, Azure, WordPress

Areas of Expertise: Generative AI, Large Language Models, Machine Learning, Deep Learning, AI Programming, Predictive Modeling, Database Analysis, AI Ethics, Web Design, UI/UX, Quality Assurance Testing, Test Automation, Git, Cybersecurity

EXPERIENCE

Graduate Teaching Assistant, *Brown University*

Providence, RI | **January 2025 – May 2025**

- Helped create content to teach students how to make multi-agent systems using generative AI and create large language models
- Assisted in grading course assignments to provide comprehensive feedback and assessment of student performance

Software Engineering Intern, *Marqeta*

Remote | **June 2024 – August 2024**

- Developed a GitHub application integrated with the CI team's service, issuing on-demand personal access tokens scoped to user-specified repositories
- Reduced token retrieval time by 95 percent, enhancing the CI/CD pipeline's efficiency

Computer Science Teaching Assistant, *Brown University*

Providence, RI | **January 2024 – May 2024**

- Facilitated monthly discussion sections for over 150 students to deepen their understanding of computer vision concepts and their social implications, such as legal policies surrounding AI and data privacy

Software Engineering Intern, *General Motors*

Roswell, GA | **June 2023 – August 2023**

- Implemented front-end features for Account Overview used by over 22 million online users
- Led testing phase, automating, and executing tests to identify critical bugs and enhance product quality
- Engaged in scrum practices, including reviewing and creating PRs for various tickets

Software Engineering Intern, *Brown University Physics Department*

Providence, RI | **November 2021 – May 2024**

- Took ownership of the cryostat control system's backend of the Exoplanet Climate Infrared Telescope (EXCITE)
- Collaborated on backend code planning with NASA's Goddard Space Flight Center and other institutions

Freelance Web Developer, *Diabetic and Hypertension Relief Center*

Remote | **January 2015 – Present**

- Oversee UI design, including CSS/HTML elements, text updates, and photo uploads, for the WordPress-supported site dhreliefcenter.org since 2021

PROJECTS

Iterative Design | *HTML, CSS, Figma, Balsamiq*

Spring 2025

- Redesigned Sesame's healthcare platform, enhancing user accessibility and personalization for AI-driven healthcare tools.
- Developed iterative prototypes (Balsamiq, Figma) based on expert feedback from Google and Sesame executives, refining UX through structured critique cycles

JeopardyAI! | *Python, Jupyter Notebook, AutoGen, OpenAI*

Fall 2024

- Developed a Jeopardy-style trivia game where two human players can compete against each other and interact directly with an AI game host
- Designed a multi-agent system that dynamically generated questions, moderated gameplay, and kept score between the players
- Integrated OpenAI and Cluebase APIs to deliver an engaging experience with access to over 350,000 trivia questions.

DraftBears Sportsbook | *Python, SQLite, JSON*

Spring 2024

- Analyzed NBA player performance metrics by using machine learning algorithms to predict player performance, while collecting over 23,000 data points from multiple APIs

HONORS AND AWARDS

Brown University Computer Science Scholarship

March 2024

- Merit-based full-tuition scholarship for the Master's Program of Computer Science at Brown

Brown University Undergraduate Teaching and Research Award

Spring 2024, Spring 2023, Fall 2022

- Supports Brown students collaborating with Brown faculty on research

NASA Rhode Island Space Grant Summer Scholarship

April 2022

- Awarded to undergraduates carrying out NASA-related research projects

Dr. Martin Luther King Jr. Trust Fund Scholarship

October 2019

- Awarded to college-bound students with exceptional academics and community service experience