

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, SQLite, Golang, Terraform, Apache Spark, MongoDB, JavaScript, C, Java, HTML, CSS, AWS (beginner), Azure (beginner), WordPress (beginner)

Areas of Expertise: Machine Learning, Deep Learning, AI Programming, Predictive Modeling, Database Analysis, Web Design, Cybersecurity, Quality Assurance Testing, Test Automation, Git

EXPERIENCE

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
- Assisted in grading course assignments to provide comprehensive feedback and assessment of student performance

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, the Space Telescope Science Institute, 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

DraftBears Sportsbook | *Python, SQLite, JSON*

Spring 2024

- Analyzed NBA player performance metrics by collecting 23,762 data points from multiple APIs, using machine learning algorithms to predict player performance

Rendering 360° Images into Paintings | *Python, Jupyter Notebook, TensorFlow*

Fall 2023

- Transformed 360° panoramic images into interactive artistic stylizations using patch-based algorithms and convolutional neural networks

Semantic Parsing | *Python, Jupyter Notebook, PyTorch*

Fall 2023

- Designed a natural language parser capable of interpreting user commands into executable computer code by utilizing deep learning

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