Anika Mahns

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EDUCATION

Brown University - B.S. Computer Science - Expected May 2026

Related Coursework: Program Design with Data Structures+Algorithms, Mobile Robotics, Linear Algebra, Ordinary Diff. Equations

Scores: SAT: 1500 (R/W 710, Math 790), Honors AP Scholar with Distinction

EXPERIENCE

Physics Department (Brown University) - AI/ML Research Assistant **[09/2025 - Present]**

- Building an AI space game where reinforcement learning models in Python/TensorFlow pilot spacecraft near black holes.
- Prototyping a React web client and server, enabling students to compete with AI and human-controlled spacecraft.

Data Science Fellowship (Brown University) - AI/ML Research Assistant **[09/2025 - Present]**

- Built an AI tutoring system in Python using LLMs and retrieval over course materials to evaluate and improve students' explanations of statistical research papers.

Fidelity Investments - Mobile Engineer Intern **[06/2025 - 08/2025]**

- Revamped IRA dashboard personalization for 10M+ iOS users, enabling 3× faster content updates with zero post-release defects.

Fidelity Investments - Software Engineer Intern **[06/2024 - 08/2024]**

- Refactored Workforce Connect's client, improving load time by ≈50%; streamlined client state management.
- Led end-to-end development of multiple feature enhancements from design, implementation, and deployment into production.

Rhode Island Hospital - Research Assistant **[06/2023 - 08/2024]**

- Developed Python/JavaScript software integrating ImageJ, Fiji, and Nikon Elements to automate barcoded cell analysis across 10,000+ confocal microscopy images, improving genotoxin response assessment turnaround by ~30%.
- Led 2 software engineers through design and development of the lab's website.

Engineering Department (Brown University) - Research Assistant **[09/2023 - 01/2024]**

- Developed low latency, real-time Python data pipelines processing over 500,000 data points from wearable sensors.
- Investigated Machine Learning techniques to classify neurological states from biometrics, with support from Dr. Marissa Gray.

Applied Mathematics Department (Brown University) - Research Assistant **[01/2023 - 06/2023]**

- Developed more efficient methods of communication by decoding/encoding data for visualization through hypercubes, matrices, channels, code, and transmitters in collaboration with Dr. Christopher Rose.
- Presented a short lecture about Hamming Codes to ENGN 1580 Communication Systems course.

Computer Science Department (Brown University) - Software Engineer **[09/2022 - 03/2023]**

- In partnership with NASA, led development of a mobile app to enable exploration of stellar phenomena through sound/haptics.
- Worked with a 10+ member team of Brown, NASA, and Smithsonian scientists

LEADERSHIP AND SERVICE

Nelson Fitness Center (Brown University) - Supervisor **[04/2023 - 12/2024]**

- Providing effective supervision of over 20 staff members and maintaining records/reports related to performance. Point of contact for client issues, swiftly resolving inquiries and complaints to ensure high levels of satisfaction.

Mosaic+ Computer Science Mentorship Program - Third Year Liaison **[10/2022 - 12/2024]**

- Established a collaborative community of +300 members for underrepresented individuals within Computer Science.

YouCal - Co-Founder **[09/2023 - 12/2023]**

- Led a 3-person team to develop a social calendar app for college students. Awarded placement into Brown's Innovation Dojo Accelerator; pitched successfully to a panel of 6+ VCs; designed go-to-market and user engagement strategies.

AWARDS

1st Robotics tournament at the College of Thessaloniki

-- Top Commonwealth Parkville Senior Thesis: "Chaos Theory: A Mathematical and Interdisciplinary Review"

1st Regional FBLA Puerto Rico programming track, created a full stack quiz platform with AWS, Next.js and netlify.

PROJECTS

Machine Learning (GAN) PFP Gen: Training a Generative Adversarial NN. with selfies to generate a new profile picture.

Fitness App: An interactive fitness platform, constructed with React.js, offering personalized exercise routines.

SKILLS

Technical Skills: Python, JavaScript, SwiftUI, Typescript, DrRacket, Node.js, React.js, HTML/CSS, Selenium, AWS, Grafana, Github, Docker, Databases, Figma, Microsoft 365, Excel, Google Suite, Netlify.

Languages: English (Native), Japanese (Limited Working Proficiency), Spanish (Limited Working Proficiency).