

# 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 AI space game where reinforcement learning models in Python/TensorFlow piloted 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]

- Prototyping an AI agent by adapting LLMs in Python/R to evaluate and improve students' ability to explain statistical papers to audiences with varied expertise.

### Fidelity Investments - Mobile Engineer Intern

[06/2025 - 08/2025]

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

### Fidelity Investments - Software Engineer Intern

[06/2024 - 08/2024]

- Refactored Workforce Connect's client, improving load time by  $\approx 50\%$ ; 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 for cancer research, automating barcoded cell analysis and processing over 10,000+ confocal microscopy images to assess genotoxin responses with 30% faster turnaround.
- 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).