

Samuel Hernandez

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

Bachelor of Science in Computer Science

Expected graduation: May 2025

Courses: Operating Systems, Software Engineering, Web Programming, Database, Data Structures

Springfield Technical Community College

Springfield, MA

Associate's Degree in Computer Science and Engineering

Graduated: Dec 2022

Courses: Intermediate Java Programming, Computer Organization and Digital Logic, Algorithms

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript/TypeScript, R, GO

Technologies: AWS, SQL, Linux, React, Vue, Angular, Docker, HTML/CSS, Pytorch, Tailwind, React Native, Pandas

Tools: MongoDB, Eclipse, SQL, Git, Kali

EXPERIENCE

Undergraduate Research Volunteer

December 2024 – February 2025

University of Massachusetts Amherst

Amherst, MA

- Contributed to discussions on ethical **AI applications** in healthcare and ensured compliance with data privacy standards.
- Improved model accuracy by **15–30 %** after optimizing hyperparameters or applying better preprocessing techniques. Reduced model loss by **20–40 %** through tuning and architecture modifications.
- Contributed to research projects focused on developing and applying machine learning models, including backpropagation and neural networks..
- Gained hands-on experience in data preprocessing, model training, and evaluation using **Python** and **Pytorch** and relevant libraries.

Software Developer

June 2024 – August 2024

Scholarship Auditions

Nashville, TN

- Improved the UX/UI of the company's website using **Angular**, delivering a modern, responsive, and user-friendly design in collaboration with a team of 4 developers.
- Built an app for **5,000+ users**, using **Django & Next.js** for efficient data management.
- Deployed project databases on **AWS**, using Amazon RDS for scalability and security and **DynamoDB** for high-performance NoSQL data retrieval.
- Enhanced website performance by **60%** through asset optimization, caching, and **CDN integration**, for faster load times and better user experience.

I.T Intern

May 2022 – November 2023

Way Finders

Springfield, MA

- Oversaw computer and software management** using cloud-based IT service management software.
- Introduced **innovative device management approaches** that achieved a **\$10,000 cost-saving annually** and improved team productivity by **50%** through optimized processes and tools.
- Facilitated onboarding for new team members**, ensuring smooth integration with company technology to enhance efficiency in achieving goals. Provided tailored support and training, reducing ramp-up time by **30%**.
- Maintained company devices**, utilizing **Command Prompt** for diagnostics and troubleshooting. Ensured all Windows updates were installed correctly to improve system reliability by **20%**.

PROJECTS

Calendar Cherish | *JavaScript, SQL, CSS, HTML*

- Improved user security by integrating multi-account functionality and two-factor authentication.
- Enabled users to create, edit, and save personalized daily journal entries.

My Chats | *Python, Django, React, PostgreSQL, Docker, AWS*

- Full-stack live chat platform using Angular, Django REST Framework, and AWS, featuring secure password hashing, two-factor authentication (2FA), and support for 5,000+ users.

Samuel's University | *HTML, CSS, JS, PHP*

- Developed php script for email accountability feedback.
- Responsive web forms optimized for mobile and desktop devices using HTML, CSS, and media queries.