

AMMIEL BOWEN

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EDUCATION

Florida State University — GPA: 3.42

Tallahassee, FL; Graduating May 2027

Bachelor of Science in Computer Science

- *Honors: Vires Scholarship Recipient, Dean's List (4 Semesters), University Honors Program*

Relevant Coursework: Advanced Data Structures & Algorithms, Operating Systems, Parallel Programming, Theory and Structure of Databases, Linear Algebra, Applied Statistics, Advanced Calculus, Graph Theory, Theory of Computation, Discrete Mathematics, Objects & Design

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, C++, C#, SQL, R

Backend & Cloud: Node.js, Express, REST APIs, AWS, MongoDB (GridFS), MySQL, Linux/Unix

AI/ML: PyTorch, Retrieval-Augmented Generation (RAG), Pinecone, OpenAI API, Deep Graph Infomax (DGI), Temporal Convolutional Networks (TCNs)

Frontend & Tools: React, Vite, Recharts, HTML/CSS, Git/GitHub, Jupyter, VS Code, IntelliJ, PyCharm, Power Apps, Power Automate, SharePoint

EXPERIENCE

FSU IT Services — Special Projects Developer

Tallahassee, FL; August 2025 – Present

- Engineered a full-stack transcript management system for FSU's Office of Admissions, replacing a manual workflow with a React (Vite) frontend and Node.js/Express REST API backed by MongoDB with GridFS for PDF storage; used by 50+ Admissions staff to upload and view documents, and now holds 10,000+ submitted transcripts against a searchable index of 54,000+ institutions.
- Cut per-transcript update time from minutes to under 30 seconds; built a searchable submissions dashboard, multi-chart analytics (Recharts), role-based access control (Admin, Technician, Viewer), an admin activity log with full CRUD audit trails, and destination-aware ID validation (EMPLID, SLATE Apply/Connect).
- System showcased to the Provost in executive FSU meetings and presented at the 2026 ITS RISE Showcase.

Bastion Technologies — Software Engineer Intern

Remote; May 2025 – Present

NASA Contractor — Engineering & Technical Services

- Designing a scalable management training system for NASA using Power Apps, Power Automate, and SharePoint, enabling leadership to prioritize tasks, run structured development programs, and track employee progress through automated workflows, targeting 500+ users across the agency.
- Developing the platform for eventual NASA-wide deployment with a 5-person engineering team, standardizing training processes and tracking effectiveness through Power Platform analytics.
- Produced end-user onboarding materials for the platform, including a full video walkthrough script and a comprehensive HTML tooltip reference.

Dept. of Computer Science — Research Assistant

Tallahassee, FL; September 2024 – July 2025

- Researched integrating Deep Graph Infomax (DGI) with Temporal Convolutional Networks (TCNs) to improve seizure prediction by modeling both structural and temporal neural connectivity. Implemented graph-based feature extraction and temporal sequence learning in PyTorch, achieving mid-70% prediction accuracy and improved F1 and AUC scores over single-GNN models.

PROJECTS

Computational Neuroscience Chatbot | Node.js, AWS, Pinecone, RAG

Summer 2024

- Built a retrieval-augmented generation (RAG) chatbot for computational neuroscience, pairing a scalable Node.js/AWS backend with a Pinecone vector database to ground responses in retrieved source material and orchestrate external API calls; cut query response time by ~40% versus a keyword-search baseline.

LEADERSHIP & INVOLVEMENT

Kappa Alpha Psi Fraternity — Polemarch (Chapter President)

April 2026 – Present

Lead an 18-member chapter and 6-person board; directed an \$18,000 Gala for St. Jude

Student Government Association — Chair, RSO Allocation Committee

May 2026 – Present

Allocate over \$100,000 per semester for FSU's 750+ registered student organizations

CodeEducation | FSU — President

December 2024 – July 2025

Theta Tau | Engineering Fraternity — Web Chair

November 2024 – May 2025