

# Owen McGlynn

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## EDUCATION

### University of Massachusetts - Amherst

4.0 Major GPA, 3.99 Overall

B.S. in Computer Science and Computational Mathematics, Minor in Japanese

May 2027

RELEVANT COURSES: Programming Methodology, OOP, Data Structures, Cybersec, AI, Intensive Japanese 4

CERTIFICATIONS: CompTIA Security+, CompTIA A+

## WORK EXPERIENCE

### Honeywell FM&T (DOE Q-Level Clearance Required)

May 2025 - Present

#### IT Intern II

Development Team

- Designed automatic modular data analysis tool, identifying and isolating 1900+ deprecated program items.
- Automated deployment, upgrade, and revision processes for 40+ application servers cutting manual labor by ~6 hours/month.
- Rapidly upskilled in Bash, JSPs, Tcl and MQL; delivered multiple critical tools ahead of schedule.
- Led recovery of damaged server cluster, fully restoring operational status within 24 hours.
- Presented innovative integration strategies for proprietary services, adopted by senior engineers.

### Helzberg Diamonds

May 2024 - Aug. 2024

#### IT Intern

Proprietary Systems

- Designed and built full-stack web application to streamline CCPA compliance, automating workflows previously requiring coordination across 3 departments.
- Created customer-marketing opt-out tool and backend data management automation with Snowflake and Jupyter notebooks, achieving near-total compliance.

### Buffalo State Pizza Co., Strang Hall, Broadmoor Bistro

April 2019 - Aug. 2023

#### Chef

Shift Lead

- Managed teams of 5-8 staff, overseeing prep and service during peak hours, serving up to 600 customers daily.

## PROJECTS

### BetaBreak | Flask, Python, JavaScript, CSS3

- Engineered advanced A\* path-finding algorithm using biomechanical models to deliver real-time, personalized climbing recommendations.
- Built full-stack web app featuring interactive JavaScript frontend and computer vision backend, achieving ~95% hold-placement accuracy

### StorMe | Node.js, React, Docker, PostgreSQL, TypeScript

- Developed web platform enabling students to rent local storage spaces during academic breaks.
- Implemented secure backend API, search functionality, and personalized user experiences.

### Neural Text Generation with Character-Level RNN | PyTorch, NumPy, Deep Learning, Matplotlib, NLP

- Built character-level RNN incorporating manual hidden state propagation and embeddings.
- Engineered sliding-window dataset pipeline and temperature-based sampling for creative text generation.
- Tuned hyperparameters for generating coherent English from literary texts.

## TECHNICAL SKILLS

- LANGUAGES:** Java, Python, C, SQL, JavaScript/TypeScript, Tcl/Tk, MQL, Bash, Japanese
- FRAMEWORKS AND TOOLS:** Snowflake, PostgreSQL, Git, Docker, Linux, VIM, React, Node.js, Pandas, Streamlit, Jupyter Notebooks, Unix, PyTorch, TensorFlow, NumPy, NLP
- LEADERSHIP:** Cybersecurity Club, AI Club, Rock Climbing Club (Setter/Organizer)
- BUSINESS SKILLS:** Data Flow Diagramming, BPMN, Agile Methodology, Documentation, Unit Testing