

# Owen McGlynn

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## EDUCATION

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### University of Massachusetts - Amherst

3.98 Major GPA, 3.99 Overall

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

May 2027

RELEVANT COURSES: Programming Methods, OOP, Data Structures, Cyber-Sec, AI, Japanese 4, SWE, Algorithms

CERTIFICATIONS: CompTIA Security+, CompTIA A+

## WORK EXPERIENCE

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

May 2025 - Present

#### IT Intern II

Development Team

- Engineered modular data analysis system, automatically identifying 1900+ deprecated program items.
- Automated deployment, upgrade, and revision processes for 40+ application servers cutting manual labor by ~100 hours/year.
- Learned Bash, JSPs, Tcl, and MQL independently, using these technologies to deploy 4 critical applications 3 weeks ahead of schedule.
- Led recovery of damaged server cluster, fully restoring operational status within 24 hours.
- Presented innovative integration strategies for proprietary services which were adopted by senior engineers

### Helzberg Diamonds

May 2024 - Aug. 2024

#### IT Intern

Proprietary Systems

- Developed automation for CCPA compliance workflows, eliminating necessity for inter-departmental coordination and reducing processing time by ~2 days/req.
- Created marketing opt-out tool integrated with Snowflake and Jupyter, raising data compliance to over 90%.

### 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

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### BetaBreak | Flask, Python, JavaScript, CSS3, RF-DETR

- Built full-stack web app featuring interactive JavaScript frontend
- Trained computer vision backend for hold detection, achieving ~95% hold-placement accuracy
- Formulated A\* algorithm using biomechanical models to generate personalized climbing suggestions.

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

- Developed peer-to-peer platform enabling students to rent local storage spaces during academic breaks, reducing costs by over 40%.
- Implemented secure backend API, search functionality, and personalized user experiences.

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

- Created 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

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- **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, Apache Tomcat
- **LEADERSHIP:** Cybersecurity Club, AI Club, Rock Climbing Club (Setter/Organizer)
- **BUSINESS SKILLS:** Data Flow Diagramming, BPMN, Agile Methodology, Documentation, Unit Testing