

# Wathon Maung

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## EDUCATION

### Northeastern University

Boston, MA

*Candidate for Bachelor of Science in Computer Science*

*Expected May 2027*

**Relevant Coursework:** Object Oriented Design, Algorithms and Data, Computer Systems, Web Development, Cybersecurity

**Honors:** GPA: 3.71/4.0, Dean's List: Fall 2024

## EXPERIENCE

### Harvard University

July 2025 - Present

*IT Systems Specialist*

Cambridge, MA

- Partnered with professors and technical staff to modernize classroom hardware, implementing PowerShell scripts to improve reliability and accessibility across **50+ Harvard learning spaces**.
- Troubleshoot and optimized Windows, macOS, and Linux systems integrated with **Cisco networking equipment** and cloud-based collaboration tools (Zoom, Panopto, Microsoft Teams), reducing downtime by **25%**.
- Streamlined classroom transitions and lecture capture workflows by integrating **CI/CD-style deployment practices**, cutting setup time by **20%** and improving recording consistency.

### AKARA Consulting LLC

November 2023 - June 2025

*Junior System Analyst*

Silver Spring, MD

- Built cloud infrastructure in Microsoft Azure and Google Cloud Platform using **Python, Terraform, and Docker**, provisioning **10+ virtual environments** for development and testing, increasing engineering team productivity by **30%**.
- Designed internal automation scripts for **VM provisioning, storage setup, and CI/CD pipelines** that reduced manual setup time by **75%**.
- Contributed to the company's successful **SBA 8(a) Business Development Program** application by developing technical documentation and compliance reports, enabling pursuit of federal contracts.

### AKARA Consulting

November 2023 - Present

*Volunteer Technical Assistance*

Silver Spring, MD

- Automated common IT support tasks using Python and Bash scripts, reducing staff workload by **30%**.
- Provided technical support for Windows, Linux, and SaaS platforms, resolving **200+** issues and increasing staff productivity.
- Implemented a lightweight ticketing workflow in Jira to track common issues, improving documentation and cutting resolution times by **20%**.

## PROJECTS

### Three Trios Card Game | Java, Swing

- Designed and implemented a virtual card game using **Java** and **Swing GUI**, providing **real-time updates** between players.
- Built **AI opponents** capable of evaluating board state to select optimal moves, reducing decision time to **<100 ms per turn**.
- Applied object-oriented design patterns to ensure modularity, enabling **new rules/cards to be added in <10 lines of code**.

### Solar Weather Prediction | Python, Scikit-learn, NumPy, Plotly, BeautifulSoup

- Developed a **polynomial regression model** with Scikit-learn and NumPy to predict geomagnetic storm frequency, achieving  **$R^2 = 0.82$**  on test data.
- Automated **web scraping with BeautifulSoup** to acquire solar weather datasets from NOAA, streamlining data collection.
- Collaborated with a team for interactive data visualizations in Plotly, improving readability and providing data-driven analysis.

### Custom File System | C, FUSE, Linux

- Engineered a **FUSE-based filesystem driver in C**, enabling users to mount and manage a **1 MB virtual disk image**.
- Implemented core file operations with error handling to prevent crashes from invalid commands, ensuring robust operation.
- Validated system with **50+ functional tests**, confirming stability across common file system edge cases.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, Assembly, HTML, SQL, JavaScript, R, CSS, TypeScript, Dart

**Frameworks/Libraries:** MATLAB, NumPy, Pandas, Plotly, React, ArcGIS, Flask, Scikit-learn, FUSE

**Systems & Cloud:** Docker, Unix, Node.js, AWS S3, AWS EC2, Kubernetes

**Concepts:** OOD, CI/CD, Agile Scrum, NLP, Statistics, Data Visualization, Data Structures, Abstraction