

JAWAD ALSAHLANI

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EDUCATION

University of Michigan – Ann Arbor

Sep 2022 – May 2026 (Expected)

B.S. Computer Science Engineering

Ann Arbor, MI

Relevant Coursework: Distributed Systems, Computer Security, Operating Systems, Web Systems, Database Management, Game Development, Computer Vision

EXPERIENCE

Software / Web Developer Intern

May 2025 – Aug 2025

The Mainstay Foundation – Innovation & Leadership Center

Dearborn, MI

- Rebuilt donation and product pages in GoHighLevel with custom JavaScript/CSS; resolved quantity sync, duplicate add-to-cart, and checkout errors.
- Improved donor transaction reliability for 500+ users, reducing failed checkouts and support tickets.

Data Systems & Finance Ops

Jan 2019 – September 2025

Al Khoei Foundation

New York, NY

- Oversaw \$500K+ in charitable payments annually with complete ledger accuracy.
- Built an ETL pipeline (CSV → Access) with validation and cleanup scripts; cut duplicate records by 90% and sped monthly closes by 50%.
- Led a 4-person finance/tech team, standardizing workflows for reporting and compliance.

Software Intern

Jun 2024 – Aug 2024

Tysons Institute

Vienna, VA

- Guided ESL and programming cohorts (40+ students) with tailored labs and exercises; improved average pass rates by 20%.
- Streamlined student progress tracking with improved spreadsheets and databases; reduced manual updates by 40%.

PROJECTS

AI Docs & Chat Assistant — *React, Express, OpenAI Assistants v2, Vector Store*

- Built a system enabling chat with uploaded PDFs using persistent vector storage and streaming responses.
- Deployed on Vercel/Render with a structured backend API and error handling.

Bayn Financial LLC – Algorithmic Trading Platform — *Python, QuantConnect Lean*

- Co-founded a 10-member startup; led the software team while peers focused on legal, math, and research.
- Mentored 4 teammates in Python and introduced Git workflows to standardize contributions.
- Designed equities strategy with tick-level data and risk controls; backtests achieved ~25% annual return with Sharpe 1.5.
- Explored options-based variants; one backtest reached ~500% return, highlighting both potential and overfitting risks.
- Built logging/data pipelines for reproducible experiments, enabling smooth collaboration between code and quant teams.

Omega Beta Eta Website — *Flask, React, SQLite*

- Created donation, event, and member portal with authentication and role-based access.
- Built SQL schema and secure endpoints; reduced page load times by 40% and simplified admin workflows.

Disease Classification — *Python, NumPy, Matplotlib*

- Compared multiple ML models (kNN, logistic regression, random forest, decision tree, neural nets).
- kNN selected as best, reaching 93.9% accuracy on cleaned dataset.

Text Classifier (Piazza Posts) — *C++*

- Implemented classifier to label course forum posts with 95% precision using BSTs/maps for large vocabularies.

LEADERSHIP

Omega Beta Eta

Aug 2024 – May 2025

President

University of Michigan

- Led 8-member executive board; coordinated planning and execution of events.
- Organized philanthropic tournaments and food stands, raising \$5K+ for charity.

TECHNICAL SKILLS

- **Languages:** Python, C, C#, C++, Java, JavaScript, Go, SQL
- **Web/Database:** React, Node/Express, Flask, HTML/CSS, SQLite, REST APIs
- **Tools:** Git, Vercel, Render, Jupyter, VS Code, Unity
- **Concepts:** Data Structures & Algorithms, Operating Systems, Security, Distributed Systems, Machine Learning, Agile/Scrum, Web Development, Full Stack, Back End, Front End