

Amine Hamlouchi

Louisville, KY | (502) 693-1063 | aahaml01@louisville.edu | aminehamlouchi.github.io | github.com/aminehamlouchi

EDUCATION

University of Louisville, J.B. Speed School of Engineering

Louisville, KY

Bachelor of Arts in Computer Science; Minor in Arabic; GPA: 3.5/4.0; 95 credits completed

Expected May 2027

- **Relevant Coursework:** Data Structures, Algorithms, Software Engineering, Operating Systems, Computer Systems, Database Systems, Python & Data Analytics; enrolled in AI, Machine Learning, and Computer Networks.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript/TypeScript, SQL, Bash, HTML/CSS, Google Apps Script

AI/Data: RAG, tool-calling workflows, prompt engineering, FastAPI, pandas, NumPy, scikit-learn, Jupyter, model evaluation

Software/Systems: React, Node.js, SQLite, REST APIs, Docker, GitHub Actions, Linux, Git/GitHub, testing, documentation

EXPERIENCE

IT Analyst Intern

May 2026 – Present

Parker Hannifin

Jeffersonville, IN

- Support enterprise technology systems in an industrial environment by troubleshooting endpoint hardware, network connectivity, account access, applications, and user-support issues for on-site teams.
- Apply software-engineering style debugging to infrastructure incidents by isolating root causes, validating fixes, documenting repeatable steps, and escalating issues with clear technical context.
- Build practical systems experience relevant to SWE and AI deployments, including device configuration, user environments, operational reliability, and the infrastructure layer behind production software.

Software Developer / Internal Tools Developer

Jul. 2022 – Sep. 2023

King iPhones

Louisville, KY

- Developed internal inventory, pricing, and sales-tracking workflows using JavaScript, Google Apps Script, Google Sheets, and API-driven automation.
- Automated manual reporting and device-tracking tasks, improving operational visibility and reducing spreadsheet-based tracking errors.
- Built an Electron/Node.js inventory workflow for batch IMEI lookup, structured Google Sheets updates, environment-based configuration, and repeatable business-process automation.

Technical Lead, Livestreaming & Digital Operations

2024 – Present

Alnur Mosque Islamic Center

Louisville, KY

- Operate livestreaming and digital content workflows for educational programs, coordinating camera, audio, platform setup, and live troubleshooting.
- Built and maintained Google Sheets trackers, event materials, and outreach workflows for volunteers, fundraising, sponsorships, and content distribution.

PROJECTS

SourceWise Dawah Agent | *Python, FastAPI, RAG, Pydantic, Docker*

2026

- Built a source-grounded AI assistant that retrieves curated masjid/MSA notes and generates citation-backed outlines, captions, and study-circle plans with human-review safeguards.
- Implemented a deterministic agent workflow for retrieval, outlining, formatting, and safety review, with CLI/API surfaces, sample corpus, tests, and Dockerized API setup.

MasjidFlow Ops | *React, TypeScript, FastAPI, SQLite*

2026

- Built a full-stack operations dashboard for community events, volunteer shifts, RSVPs, demo auth, and staffing recommendations using React/TypeScript and FastAPI/SQLite.
- Designed a seeded relational data model, REST endpoints, responsive dashboard, local deployment workflow, tests, Docker setup, and reproducible demo flow.

OpsWise Ticket Agent | *Python, CLI, IT Automation, Runbooks*

2026

- Built a CLI helpdesk agent that ingests support tickets, classifies endpoint/identity/network/application issues, retrieves runbooks, applies SLA policy, and exports reports.
- Added sample enterprise IT tickets, confidence scoring, escalation criteria, Markdown/JSON outputs, unit tests, Dockerfile, and reproducible sample runs.