# Amy Hakim

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## Education

**University of Central Florida** — Orlando, FL

*Bachelor of Science in Computer Science* — *May 2027*

- **GPA:** 3.7 / 4.0
- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Object-Oriented Programming, System Software, Analysis of Computer Communication Networks, Problem Solving & Team Dynamics, Graph Theory, Algorithms for Machine Learning

## Projects

**Cook Quest** | *Python, FastAPI, Gemini API, Unity* — October 2025

- Built **CookQuest**, a **VR AI cooking assistant** for Meta Quest that detects ingredients from photos and suggests live, step-by-step recipes. Developed asynchronous **Python** API endpoints using **FastAPI** that integrate Gemini AI to analyze images and generate structured **JSON** recipe data.
- Implemented a multi-agent system with feedback loops to refine recipe outputs and maintain session context. Deployed on **Meta Quest** using **Unity** to provide an immersive user experience.
- Awarded *Best Use of Vultr (MLH)* and *Most Useful Hack* at **KnightHacks** 2025.

**UCF Events Portal** | *.NET, C#, Blazor, MySQL* — March 2025

- Built a full-stack web application with **.NET** and **Blazor**, integrating secure authentication via **JWT tokens** to protect user data and maintain session persistence.
- Designed a normalized **MySQL database schema** supporting multi-user accounts, personalized event dashboards, and real-time synchronization through the UCF Events JSON Feed.
- Prototyped page layouts and UI components in **Figma**, used **Bootstrap** for various components.

**LeetCode Solution Tracker** | *Manifest V3, JavaScript, Notion API, Go* — September 2025

- Created a Google Chrome Extension using **JavaScript** and **Manifest V3** to capture LeetCode submissions directly from the browser.
- Wrote a **Python** automation script in **GitHub** that triggers on `push` events via **GitHub Actions**, reliably inserting submission data into a Notion database through **Notion API**.
- Applied end-to-end **CI/CD automation** to continuously integrate submissions and **sync data** between GitHub and Notion without manual effort.

## Work Experience

**Software Engineer** | North Florida American Red Cross — June 2023 - August 2025

- Automated disaster response data workflows by developing **Python** pipelines to query and clean over **10K+ records** per month from **SQL** databases, reducing manual processing time by over **70%**.
- Delivered dynamic **Power BI** dashboards visualizing response times and resource allocation, enhancing **KPI** reporting accuracy and enabling faster, data-driven decision-making across teams.

**UCF Programming Team** | University of Central Florida — September 2024 - August 2025

- Collaborated with team members during weekly programming practices as a guest participant, solving competitive **C++** problems under timed conditions to strengthen teamwork and algorithmic efficiency.
- Optimized and debugged solutions, improving speed and accuracy via post-contest code reviews.

## Technical Skills

**Languages:** Python, C++, C#, SQL, JavaScript, HTML, CSS, Java, Bash, Shell Scripting, TypeScript, PHP
**Frameworks/Libraries:** .NET, Blazor, Flask, FastAPI, Bootstrap, Tailwind
**Developer Tools:** Visual Studio, Git, Linux/Unix workflows, Jira, Postman, Figma, Power BI, MySQL, APIs, REST, PostgreSQL, Jupyter