

# Mingma Lama

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## EDUCATION

### Morgan State University

Baltimore, Maryland

B.S. in Computer Science

Expected Graduation, May 2027

- GPA: **3.6/4.00**, **Dean's List** (Community College of Baltimore County), **Tau Sigma National Honor Society**
- Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Structures, Computer Systems

## EXPERIENCE

### Venetian Italian Eatery

Edgewood, Maryland

Web Developer

June 2025 – August 2025

- Redesigned a mobile-responsive restaurant website with improved page load performance and cross-device compatibility, driving increased online engagement and direct-order conversions
- Partnered directly with ownership to integrate web updates into **Toast POS** workflows and delivered end-to-end technical support for web infrastructure, minimizing downtime during peak hours

### Valentino's Restaurant Group

Baltimore, Maryland

Web Developer

December 2024 – February 2025

- Developed and maintained responsive frontend interfaces across multiple restaurant websites, managing dynamic content updates for menus, promotions, and media assets to support marketing initiatives
- Configured and troubleshot **Toast POS** systems, streamlining order processing and payment workflows for restaurant staff across multiple locations

## PROJECTS

### Kairos – Metacognitive Knowledge OS

Runner-Up (\$3,000) + Winner, Best Use of Gemini API

Developer (team of 4), MorganHacks 2026

2026

- Built a persistent knowledge OS with **Next.js**, **FastAPI**, and **Three.js** that scans local files via CLI, extracts concepts using **tree-sitter AST parsing** and **Gemini 2.5 Flash**, and constructs a 3D knowledge galaxy with Leiden community detection
- Deployed **20 metacognitive AI agents** with distinct reasoning styles using Gemini function calling, each grounded in the user's actual knowledge graph with hybrid search (**pgvector + tsvector + RRF fusion**) across **1,000+ indexed nodes**
- Engineered a self-improving pipeline with nightly cron jobs that detect failed queries, run grounded web research, generate digests, and consolidate **4-layer memory** across sessions

### Mental Distress Prediction Model

Python, Pandas, Scikit-learn

Independent Project

2025

- Analyzed **CDC PLACES** county-level data using **Pandas** to identify socioeconomic factors influencing mental distress across U.S. counties; cleaned and preprocessed raw survey data by resolving missing values and inconsistent encodings
- Engineered a composite "financial threat" feature combining income, employment, and housing stress indicators; trained a **Scikit-learn** linear regression model with strong  $R^2$  and RMSE metrics, validating the socioeconomic-mental health link

### Lamarca AI

Django, OpenAI API, Tailwind CSS

Independent Project

2025

- Created an AI-powered content-generation tool that transforms **YouTube videos** into polished, SEO-friendly blog articles by integrating the **OpenAI API** for transcript analysis
- Built a **Django** backend handling URL parsing, transcript extraction, and API orchestration with a responsive **Tailwind CSS** frontend

### StreamScout

React, Tailwind CSS, TMDB API

Independent Project

2024

- Built a dynamic movie discovery platform surfacing trending films and personalized recommendations via the **TMDB API** with real-time data fetching and robust error handling
- Leveraged **React hooks** (useState, useEffect) and architected a reusable component library following **mobile-first** responsive design principles

## ACTIVITIES & AWARDS

- **Runner-Up (\$3,000) + MLH Best Use of Gemini API**, MorganHacks 2026 — built Kairos, a metacognitive knowledge OS with 20 AI agents, 3D galaxy visualization, and a self-improving nightly research pipeline
- **Dean's List**, Community College of Baltimore County — recognized for maintaining academic excellence across multiple semesters
- **Tau Sigma National Honor Society** inductee — selected for outstanding academic achievement as a transfer student

## SKILLS

**Programming:** Python, Java, JavaScript, TypeScript, SQL

**Frameworks & Tools:** React, Next.js, Django, FastAPI, Tailwind CSS, Three.js, Node.js, Git, Docker

**Cloud & Databases:** PostgreSQL, pgvector, MySQL, MongoDB, Redis

**AI/ML & Other:** OpenAI API, Gemini API, RAG, Knowledge Graphs, Pandas, NumPy, Scikit-learn