

# Kamilla Mamatova

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## Education

University of Central Florida, GPA: 3.6

Expected May 2027

B.S. in Computer Science

Relevant Coursework: OOP, Data Structures and Algorithms, Discrete, Computer Organization, Linear Algebra, AI for Game Programming

## Projects

### RocketTime (KnightHacks 2025)

Oct 2025

Developer || React | Node.js | Gemini API | Git | JavaScript | TypeScript | MySQL

- Engineered a productivity tracking MVP in **36 hours**, leading a team of 4 to integrate a React frontend with a Node.js/MySQL backend under strict hackathon deadlines.
- Optimized dashboard rendering performance, reducing load times by **~40%** through efficient state management and component modularization.
- Integrated the Gemini API to generate ROI analytics that identified **30%+** of unproductive time blocks for users.

### AI Resume Analyzer App

March 2025

Developer || Python | Streamlit | OpenAI API | NumPy | Pandas | Matplotlib

- Engineered an NLP-powered resume parser using OpenAI's GPT-4, capable of processing PDF data to generate actionable feedback for **100+** evaluations.
- Developed a proprietary scoring algorithm analyzing keyword density and formatting, creating standardized feedback reports for **10+** distinct resume templates.
- Built a responsive Streamlit interface featuring automated SMTP email delivery, reducing manual feedback time by **100%**.
- Integrated Matplotlib-based visual feedback with real-time resume rating display to improve user clarity and reduce iteration cycles by an estimated **40%**.

### Job Market Insight App

April 2025 – May 2025

Developer || React | Python | JavaScript | FastAPI | Pandas | REST APIs | GitHub | Vercel

- Developed a full-stack search engine handling **1,000+** dynamic queries per day, aggregating live data from public APIs via a high-performance FastAPI backend.
- Engineered a responsive UI with Tailwind CSS, achieving a perfect **100/100** accessibility score on Google Lighthouse audits.
- Deployed automated CI/CD pipelines via Vercel to streamline updates, integrating filters for remote work and location across **50+** U.S. cities.

### Autonomous Drone Project Interface

May 2025 – July 2025

Developer || React | JavaScript | TypeScript | Real-time Data

- Developed the client-facing web dashboard for an autonomous drone system, enabling users to view project documentation and flight specifications.
- Collaborated with the embedded engineering team to translate technical drone specifications into an accessible, user-friendly frontend interface.
- Managed the project's web repository and documentation versioning via GitHub, ensuring **100%** uptime for the team's presentation assets.

### Handwritten Notes Generator

June 2025

Developer || Python | OpenCV | FontForge | Pillow | ReportLab

- Designed and implemented an end-to-end pipeline that converts handwritten samples into a custom TrueType font and renders typed transcripts as realistic handwritten PNG/PDF documents.
- Automated glyph segmentation with OpenCV and programmatic font assembly via FontForge, reducing manual tracing from hours to seconds while preserving layout, margins, and handwriting style.

## Technical Skills

Languages: Python, Java, JavaScript, TypeScript, C, SQL, HTML/CSS, GameMaker

Frameworks & Libraries: React, Node.js, Express, FastAPI, Flask, Streamlit, Pandas, NumPy, OpenCV, Matplotlib, TailwindCSS

Developer Tools: Git, GitHub, VS Code, Postman, Vercel