Karla Itzel Zamora

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EDUCATION

University of Texas Rio Grande Valley   **August 2020 - May, 2024**
Bachelors of Science, Computer Engineering | GPA: 3.87 | Magna Cum Laude   *Edinburg, TX*
Dean's List 2020-2024 | Tau Beta Pi Engineering member |**Clubs:** IEEE, SHPE, RTC, Codepath

WORK EXPERIENCE

Front-End Developer, Mvssive (emerging startup)   **Sept 2024 - Present**
- Collaborated with founding engineers to transform UX/UI designs into functional React code for the landing page, dashboard, inbox page, etc. Contributed meaningful features and designed a plan to implement them.
- Programmed test cases for 80% of the current website's functionality and increasing.

Software Engineering Fellow, Headstarter AI   **July 2024 - Sept 2024**
- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment.
- Collaborated with 2 Fellows to build and deploy a SaaS product that generates dynamic flashcards based on any topic using the Gemini LLM, integrated a paywall and custom pricing plans using the Stripe API
- Participated in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

AI Training Coder, Outlier   **Jun 2023 - Present**
- Created high-quality Python prompts of sufficient complexity to challenge the model's capabilities in 3+ programming domains, then evaluated the model's responses and wrote detailed justification reports.

Data Structures and Algorithms Peer Tutor, SHPE   **Jan 2023 - May 2024**
- Engaged in registration incentives that led to over 50% increase in student participation. Held class-wide lectures and review sessions for over 40 students at a time and provided one-on-one academic support to students.

PROJECTS

Transcript Annotation Tool (Hackathon Finalists)   **August 2024**
- Reached top 3 finalists for a second company-specific hackathon project developed in 36 hours.
- AI annotator that allows the user to add comments on specific parts of a transcript and generate an AI summary of both the transcript and the comments.
- Tech stack: Next.js, DynamoDB, Llama 3.1, Gemini AI, React, Tailwind CSS, Clerk integration

AI Website Optimizer (Hackathon Winner among 200+ teams)   **August 2024**
- Website generator and optimizer that generates a website from scratch or takes existing code to optimize and add features based on user input. Displays website demo in real time via a portable sandbox integration directly on the browser.
- Tech stack: Next.js, Firestore, Gemini AI, React, Material UI, Tailwind CSS, Sandpack, Clerk, and Stripe integrations.

Whiteboard Eraser Bot   **Spring 2024**
- Led the development along with 4 talented engineers for an autonomous robot that sticks to a whiteboard and erases ink efficiently using a path-finding algorithm and writing detection.
- Main tasks: microcontroller programming, ML writing detection, PCB designing and troubleshooting, manufacturing.

SKILLS & INTERESTS

- **Programming Skills:** Javascript (React, Node.js, Express.js, Next.js), C/C++, Java, C# (Unity), Dart (Flutter), HTML/CSS, SQLite, Python, Rust, Firestore cloud database