

KARLA SIERRA-MENDOZA

☎ (531)-727-0003 ✉ karla.sierra249@gmail.com 🔗 [linkedin.com/in/karla-sierra-mendoza-a26603223](https://www.linkedin.com/in/karla-sierra-mendoza-a26603223)

Education

University of Nebraska - Lincoln

August 2022 – May 2026

Bachelor of Science in Software Engineering

Lincoln, NE

Technical Skills

Languages: English, Spanish

Languages/Libraries: Python, Java, HTML, CSS, Ruby, JavaScript (React, TypeScript, Redux), C#, C, PHP, Assembly

Developer Tools: VS Code, Eclipse, PyCharm, Unity, Visual Studio, Rake, RSpec, SASS

Technologies: GitLab, GitHub, Linux/Unix, VMware, MySQL, Node.js, Express.js, AWS, Docker, Nginx, JSON

Frameworks: MVC, MVT, MVP, Django, Ruby on Rails

Experience

Privy-AI

August 2024 - Present

Software Developer Associate via Raikes School Design Studio

Lincoln, NE

- Developing an MVP leveraging Whisper AI for transcription and AWS Bedrock to produce EHR-compliant SOAP notes for physical therapists.
- Implemented application endpoints using Express.js and TypeScript to support core functionality.
- Designed and implemented application pages using React and TypeScript, integrating them with developed endpoints.
- Researching best practices for handling personal health information (PHI) to ensure HIPAA compliance in the application development.

Firespring

May 2024 - Present

Software Engineering Intern

Lincoln, NE

- Collaborated with a team using the Kanban methodology to manage and deliver project tasks efficiently, including user stories, stand-ups, and retrospectives.
- Enhanced site performance and user experience by optimizing donation import logic, adding error handling, cleaning up code, and developing RSpec tests to ensure code maintainability.
- Improved fraud management page to display successful, failed, and suspicious transactions using Ruby, PHP, APIs, and JSON.
- Updated automated test formats to use a built-in library, enabling more comprehensive and flexible testing scenarios.

Projects

Zulip | *JavaScript, Python, CSS, HTML, Django, MVT*

April 2024

- Developed an up-vote feature using the Django framework for the backend and JavaScript, CSS, and HTML for the frontend, enhancing user engagement.
- Implemented group chat name display by integrating backend logic in Python with frontend design using JavaScript, CSS, and HTML.
- Applied Scrum practices, including daily stand-ups and retrospectives, to manage and improve project tasks.

Music Generator App | *JavaScript, CSS, HTML, React, Redux, MVC*

September 2023

- Developed a simple music app using JavaScript and React and Redux libraries to generate genre-filtered songs to the GUI.
- Utilized CSS and HTML for the GUI's decorative elements for user interaction.

World Travel App | *Kivy, Python, MySQL*

May 2023

- Created an application that users can save their flights and keep information about the pilots, airports, and weather.
- Used Kivy to create the GUI that supports actions such as adding and editing flights, checking the weather of location, and seeing available airports.
- Utilized Python to implement the functionality between the GUI, database, and API, so all the components could interact with each other.

Burn Plan Evaluator | *Java, Eclipse*

December 2022

- Designed a prototype burn plan evaluator using Java, simulating common factors considered for controlled burns.
- Implemented functionality to check the weather of a specific location using an API key, providing users with weather information for their desired time.
- Utilized inheritance and other OOP practices to create various burn plans, enhancing code re-usability and maintainability.