Raine Kyro Visaya

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CAREER OBJECTIVE

Aspiring Data Engineer with experience building data-driven applications and end-to-end pipelines across Python, .NET, and cloud tooling. Seeking a role designing reliable ETL/ELT workflows, integrating APIs, and producing high-quality datasets for analytics and AI training to support product features, academic research, and business decision-making.

EDUCATION

University of Hawai'i At Hilo **Expected: May 2028**

B.S. in CS and BS. in Data Science | GPA 3.5/4.0 Hilo, Hawai'i

Relevant Coursework:

- **Engineering:** Software Engineering (CS 460) and Data Structures & Algorithms (CS 321)
- **ML/Applied:** Natural Language Processing (CS 497), Computer Vision (CS 483), and Artificial Intelligence (CS 440)
- **Math:** Elementary in Probability Theory (MATH 421), Elementary Math Statistics (MATH 422), Math Methods for Data Science (MATH 315), Applied Statistics In R (MATH 271)

ACADEMIC PROJECTS

Personalized Activities Planner **CS 497 - Natural Language Processing**

- Faced the problem of inaccessible and complex tariff estimation tools for consumers in marketplaces
- Built a daily activity recommendation app for Hawai'i that generates context-aware plans based on user interests and location.
- Integrated Google Maps API to collect and parse nearby places (cafés, parks, malls), then grouped results into activity clusters.
- Embedded clustered location data into a vector database and retrieved recommendations using cosine similarity against user prompts.

Workout Insights App **CS 460 - Software Engineering**

- Developed a cross-platform workout app in Flutter with a Dockerized Python backend serving Android and iOS.
- Translated vague stakeholder requests into actionable sprint tasks through weekly client mentorship sessions using agile practices.
- Parsed Garmin health signals and integrated Gemini AI to generate personalized workout suggestions from real-time feedback.

PERSONAL PROJECTS

Hawai'i News Map **Dec. 2025 - Present**

https://github.com/rkv-freelancer/hawaii-news-map.git

- Local news coverage in Hawai'i often lacks spatial context, where articles mention places (e.g., Hilo, Waimānalo, Lahaina), but readers rarely see where events are happening in relation to their community or across islands.
- Built a fast-loading, frontend using React, TailwindCSS, and Vite for efficient rendering on low-bandwidth devices.
- Implemented geocoding of news articles using OpenStreetMap to dynamically map story origin points on a Leaflet.js map.

Tariff Calculator in .NET (F# and C#) **May 2024 - May 2024**

https://github.com/rkv-freelancer/tariff-impact-cli.git

- Faced the problem of inaccessible and complex tariff estimation tools for consumers in marketplaces (Amazon, Apple, Nintendo)
- Built a command-line .NET application combining F# for parsing structured economic data and C# for building an interactive CLI interface.
- Parsed 2025 tariff data from Excel sheets (YaleBudgetLab), which included multi-component product breakdowns and commodity pricing.
- Modeled the projected cost impact of tariffs on consumer products by simulating future pricing based on component origin and tariff rules.

Carbon Aware Dashboard **Aug. 2025 - Nov. 2025**

https://github.com/rkv-freelancer/carbon-aware-dashboard.git

- Local news in Hawai'i often lacks geographic visibility where readers don't easily see where stories are happening across islands, limiting awareness of regional patterns.
- Built a GPU-enabled dashboard using Modal to run training and inference for news article summarization on open-source decoders (<80M parameters) from Google and Meta, sourced via HuggingFace.
- Integrated WattTime API to pull real-time carbon intensity data for U.S. regions (Midwest, Central, East) across major cloud providers (AWS, GCP, Azure).
- Calculated energy usage in joules and corresponding carbon output, and visualized it using Plotly Dash, allowing users to compare deployment scenarios.

WORK EXPERIENCE

Kau Pouhana | Web Designer **Apr. 2025 - Present**

- Designed and developed a modern five-page website for the Kau Pouhana program, focusing on user experience and visual appeal.
- Collaborated with Program Coordinator Kalehua to ensure the design and layout aligned with the program's objectives and vision.
- Utilized the university's CMS software to efficiently manage, update, and maintain web content.
- Applied proficiency in HTML5, CSS3, and Markdown to enhance website functionality and improve overall user experience.
- Improved accessibility and navigation on the website, ensuring the content was user-friendly and easy to access.

Upward Bound - Student Assistant **Aug. 2023 - Present**

- Assisted students with open-ended questions in order to evaluate their understanding
- Work with students on specific problems and assignments from their high schools.
- Troubleshooting computers, printers, loading supplies, maintaining equipment.
- Setting up tech in rooms, ensuring functionality, cleaning equipment, maintaining computer labs.
- Performing basic maintenance, troubleshooting errors (clogs, layer shifts), and cleaning 3D printing machines
- Managing inventory and supplies with Google Sheets
- Processing print requests and managing digital files.

SKILLS

- **Hard Skills:**
  - Python, TypeScript/JavaScript/TailwindCSS (React, Vite)
  - Containerization with Docker

    - Dashboards & data apps (Streamlit, Plotly Dash)
    - APIs & data integration (Google Maps, OpenStreetMap, WattTime)
    - Agile / sprint planning (requirements → tasks, iteration cadence)
    - Git / version control
- **Soft Skills:**
    - Agile teamwork and sprint planning
    - User-focused product thinking
    - Time management and prioritization
    - Accountability and follow-through

INTERESTS

- **Interests:** Coding Challenges (LeetCode, OpenKattis), Reading tech blogs and articles, Hackathons, GPU Programming

REFERENCES

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