

Alexis Vielma

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EDUCATION

The University of Kansas, B.Sc. Computer Science

Expected May 2025

EXPERIENCE

Technology Director, KJHK 90.7 FM

Mar 2023 – Present

- Led the UI and UX design, architecture, and development of a new mobile application, using React Native and TypeScript, resulting in a user-friendly and cross-platform solution that enhanced the station's digital presence with over 8000 downloads
- Developed a web dashboard that aggregates useful resources for on-air DJs such as weather information, currently playing song information, administrative announcements, and easy access to internal logging software used by over 50 DJs
- Installed and configured an RDS Encoder using Transmission Control Protocol (TCP) in order to display real-time now-playing metadata on RDS enabled radios, improving the experience of over 10,000 listeners city wide

Founding Engineer, Lightbulb.ai

May 2023 – Present

- Orchestrated an extensive AWS Lambda ecosystem to automate the transcription, analysis, and grading of over 1000 hours of calls per week, automating and reducing the workload of clients by 90%
- Architected a RESTful API ecosystem using Next.js and AWS to seamlessly interface with serverless functions and microservices, ensuring efficient communication and data flow
- Directed and contributed to the full software development life cycle, including requirement gathering, design, coding, testing, deployment, and maintenance, following a rigorous adherence to agile methodologies

DevOps Engineer Intern, Major League Hacking (Meta/Facebook)

May 2022 – Aug 2022

- Designed and developed an open-source personal portfolio website using Python, Flask, Jinja, MySQL, and Nginx. Following best practices and workflows
- Automated testing and deployment workflows using CI/CD with GitHub Actions. Implemented system and container monitoring, alerting, and visualization using Prometheus and Grafana
- Completed 12-weeks of structured curriculum-based learning covering core Production Engineering topics, supplemented with events and workshops hosted by industry experts

PROJECTS

KJHK 90.7 FM App, TypeScript, React Native, Zetta RCS

Nominated for Best App – IBS 2024

- A cross-platform mobile application that allows KJHK 90.7 listeners to tune in from wherever they are
- Oversaw entire software development life cycle, including gathering requirements, designing, coding, and deployment

Braindex, TypeScript, React Native, AWS, Flask

- A mobile app built with React Native that uses AWS and a NLP to generate flashcards, and quizzes based off of notes
- Handled the UI and UX design, mobile app development and integration with AWS Lambda functions to ingest data

Maps, TypeScript, React, Firebase, Google Cloud

2nd Place Winner – HackKU 2022

- A website that utilizes local CCTV feeds to perform imagery and weather analysis, enabling monitoring of road conditions
- Led the frontend UI and UX development and integrated Google Maps Platform API to allow users to click and view feeds

SKILLS

Languages: JavaScript, TypeScript, Python, C, C++, Haskell, Go, HTML, CSS

Frameworks: Node.js, React.js, React Native, Next.js, Svelte, Astro, Vue.js, Tailwind CSS

Platforms: Git, Amazon Web Services, Google Cloud, Vercel, Cloudflare

LEADERSHIP

KJHK 90.7 FM, Cabinet Member

May 2023 – Present

- Led an internal initiative to address technical challenges, enhance documentation for software and infrastructure
- Conducted station-wide interviews, fostering team growth beyond technical duties at KJHK 90.7 FM

Association for Computing Machinery, Web Manager

May 2023 – Dec 2023

- Executed regular website updates to ensure accurate and current data, maintaining the relevance of information
- Started a website overhaul project aimed at enhancing user experience through modernizing the UI/UX design