

ALEXIS VIELMA

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Education

The University of Kansas
B.Sc. Computer Science

Lawrence, KS
Aug 2021 - May 2025

Relevant Experience

KJHK 90.7 FM

Technology Director

Hybrid – Lawrence, KS
May 2023 - Present

- Transformed and modernized an outdated mobile application, catering to over 1000 users, leveraging React Native and TypeScript, revitalizing its functionality and user experience.
- Led the development and implementation of technology systems, including websites, mobile applications, and internal dashboards, to streamline operations and enhance user experiences.
- Successfully remediated multiple issues stemming from obsolete WordPress plugins, leading to an impressive 50% enhancement in page load speed.
- Architected an event-driven API gateway in order to create a bridge between the Radio Console System and other internal services.
- Drove internal effort to resolve technical issues and improve documentation across the radio station.

Lightbulb.ai

Software Engineer Intern

Remote – Kansas City, KS
May 2023 - Present

- Architected an API ecosystem using Next.js and AWS to seamlessly interface with serverless functions and microservices, ensuring efficient communication and data flow.
- Designed and initialized a PostgreSQL database using Prisma in accordance with an ERD.
- Contributed to the development and successful deployment of an initial MVP of the web dashboard using Next.js, Tailwind CSS, and AWS.
- Conducted comprehensive research on serverless architecture, exploring potential benefits and implications for future product development and scalability.

Major League Hacking (Meta)

Site-Reliability Engineering Fellow

Remote – Kansas City, KS
May 2022 - Aug 2022

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

Leadership

ACM

Web Manager

Lawrence, KS
Aug 2023 - Present

- Ensured data accuracy and relevance by conducting regular audits and collaborating with relevant teams.
- Initiated a website redesign project to improve user experience and introduce a student-ran project showcase blog.

Projects

KJHK 90.7 FM App, Lead Engineer | *React Native, TypeScript*

A cross-platform mobile application using React Native and TypeScript that provides a seamless experience for listeners to tune in to KJHK 90.7 FM and stay updated with the current programming.

Braindex, Lead App Developer | *TypeScript, React Native, Amazon Web Services, Flask, Natural Language Processors, Optical Character Recognition, Microservices*

A mobile application built with React Native that uses Amazon Web Services and Natural Language Processors to generate flash cards, quizzes, and exams based off of lecture notes.

Mapsy, Web Developer | *Firebase, Google Cloud, React, TypeScript*

A website that utilizes local CCTV feeds to perform imagery and weather analysis, enabling real-time monitoring and reporting of road conditions for commuters.

Skills

Programming Languages:	JavaScript, TypeScript, Python, CSS, HTML, C/C++
Libraries & Frameworks:	React, React Native, Next.js, Svelte, SvelteKit, Tailwind, Astro
Databases:	SQL, PostgreSQL, MongoDB, Redis, Cloudflare K/V, Prisma
Tools & Platforms:	GitHub Actions, Docker, Git, Vercel, Vite, Amazon Web Services, Google Cloud