ALEXIS VIELMA

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EDUCATION

The University of Kansas   Lawrence, KS
Bachelor of Science Computer Science   Aug 2021 - May 2025

WORK EXPERIENCE

KJHK 90.7 FM   Hyrbrid – Lawrence, KS
Technology Director   May 2023 - Present

- Led the development and implementation of technology systems, including websites, mobile applications, and internal dashboards, to streamline operations and enhance user experiences.
- Resolved multiple bugs caused by outdated WordPress plugins, resulting in a nearly 50% increase in page load speed.
- Leveraged my skills in TypeScript and Express.js to develop an event-driven API gateway in order to create a bridge between the Radio Console System and other internal services.
- Redesigned and redeveloped an outdated mobile application, used by over 1000 users, completely using React Native and TypeScript, revitalizing it and improving its functionality.
- Drove internal effort to resolve technical issues and improve documentation across the radio station.

Lightbulb.ai   Remote – Kansas City, KS
Software Engineer Intern   Mar 2023 - Aug 2023

- Architected a back-end API using Nest.js and TypeScript to serve as a gateway for multiple Natural Language Processors, enabling seamless integration and communication, while also implementing a robust CRUD service.
- Contributed to the development and successful deployment of an initial MVP of the web dashboard using React and Vite, ensuring a seamless user experience for clients.
- Conducted comprehensive research on serverless architecture, exploring potential benefits and implications for future product development and scalability.

Major League Hacking (Meta)   Remote – Kansas City, KS
Site-Reliability Engineering Fellow   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 a deployment workflows using CI/CD with GitHub Actions.
- Implemented system and container monitoring, alerting, and visualization using Promethus and Graphna

SKILLS

Programming Languages:	TypeScript, JavaScript (Express.js/Nest.js), Python
Web Development:	HTML/CSS, React, React Native, Next.js, Svelte, SvelteKit
Databases:	PostgreSQL, MongoDB, Firebase, Redis
Workflow:	CI/CD (GitHub Actions), Docker, Git

PROJECTS

KJHK 90.7 FM App *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 *TypeScript, React Native, Amazon Web Services, Flask, Natural Language Processors, Optical Character Recognition, Serverless*
A mobile application built with React Native that uses Amazon Web Services and Natural Language Processors to generate flash cards, quizes, and exams based off of lecture notes.

Mapsy *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.