AKSHAT SALADI

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EDUCATION

B.S. in Computer Science and Engineering, The Ohio State University — Expected May 2025

SKILLS

Languages	Java, C++, C, Python, TypeScript, JavaScript, Kotlin, SQL, R, HTML, CSS, Ruby
Frameworks/Tools	React Native, SwiftUI, Next.js, Vue, Ruby on Rails, Shiny, Git, Docker, Linux, VSCode
Soft Skills	Adaptable, Communicator, Collaborative Learner, Problem Solver, Creative

EXPERIENCE

Full Stack Developer — March 2024 - Present
The BLOK App (theblokapp.com) — *Columbus, OH*

- Architecting a social media app that transforms how people plan their social lives and engage with calendars.
- Leverages a tech stack of React Native + Expo, TypeScript, and NativeWind for the frontend; backend powered by AWS Lambda for serverless processing, Hono for API routing, AWS SQS, Drizzle, and Supabase.
- Leading the creation of core features, such as calendar event modals, robust search functionality, user privacy settings, and a dynamic calendar interface, turning Figma designs into responsive, production-ready components.
- Streamlined real-time functionality by connecting the frontend and backend for seamless updates on user actions like search, profile views, and follow requests.
- Conducted a comprehensive codebase refactor, adopting Expo Router for enhanced navigation and animations, improving code readability and long-term maintainability.

Solution Engineer Intern — May 2023 - Aug 2023
American Electric Power (AEP) — *Columbus, OH*

- Built a Python Shiny app from scratch, incorporating the OpenCV2 computer vision library to analyze drone image data for transmission line and electric grid maintenance/damage.
- Designed advanced features such as a clear score for image quality assessment, a Laplacian filter for potential rust detection, and the ability to flip through multiple images. Explores potential improvements in maintenance efficiency and worker safety by reducing the need for unnecessary fieldwork.
- Redesigned the front end of a production R Shiny app that determines optimal battery placement, transforming a cluttered tab-based layout into a streamlined drop-down menu system, significantly improving user experience.
- Implemented a data communication feature for the battery app using Oracle and PL/SQL, enabling users to preview over 25 entries of load data at a time before uploading while also checking for duplicate data.

PROJECTS

SafeVolt (HackOHI/O) Built a full-stack application built with React.js and Spring Boot that leverages Ollama LLM to analyze AEP field safety observations, providing severity assessments, preventive insights, and statistical analysis to help crew supervisors make informed safety decisions.

To Do List Developed a To Do List app using SwiftUI and Firebase, includes authentication and task management.

Smart Portfolio Website Created a smart portfolio website powered by an AI chatbot using Next.js 14, Vercel AI SDK, Langchain TypeScript, and Tailwind CSS, allowing users to get answers about the content on the page quickly.

Indoor Navigation Assistant (HackOHI/O) Developed a full-stack Android application. Utilizes the device's rear camera to help users determine the shortest path from their current location to their chosen destination.

Simon Says Game Designed and developed an interactive 'Simon Says' game using Arduino and C.

Smart Irrigation Tracker Collaborated with students in Ethiopia to build a prototype Arduino irrigation tracker.