Keshav Acharya

keshav.ach@outlook.com • https://www.linkedin.com/in/keshavach/ • https://github.com/keshava1

EDUCATION

University of Washington • Seattle, WA   Graduation: June 2027
B.S. in Computer Science   GPA: 3.84

EXPERIENCE

Electric Era   **April - September 2025**
Software Engineering Intern

- Designed and implemented full **Open Charge Point Interface (OCPI 2.2.1)** integration in NestJS with TypeORM, including automated data synchronization for site information and charging session status, and built caching, diffing, and alerting logic to ensure high data integrity and reliable interoperability with e-Mobility Service Providers (eMSPs). Led two OCPI integrations with third-party eMSPs.
- Developed an end-to-end remote transaction control flow (remote start/stop) for electric chargers, spanning cloud services to charger hardware, enabling eMSPs to reliably start charging sessions while providing real-time status feedback, as well as ensuring reliability during intermittent internet connections.
- Engineered three distinct over-the-air firmware update pipelines covering all charger boards, leveraging serial connections, Modbus, and FTP servers to orchestrate reliable update delivery, update validation, and robust rollback systems, significantly reducing maintenance overhead. Firmware updates were successfully deployed to our entire charging fleet, leading to increased reliability.
- Worked with payment terminals to enable charging sessions to be initiated via RFID cards.
- Built a charger outage classification tool for our operations team, streamlining root-cause tracking and significantly simplifying compliance processes for NEVI funding eligibility.

Success Koach • https://admissionscalculator.azurewebsites.net/   **September - November 2024**
Full Stack Developer – Freelance

- Developed a comprehensive web application with 1,000+ weekly requests that enables students to compare their GPA against historical admissions data from their high schools to assess their chances of college acceptance.
- Engineered a scalable backend using Spring Boot and PostgreSQL to efficiently handle data storage and retrieval of over 10,000 high schools over a period of 4 years for 4 campuses using UC admissions data, ensuring robust and reliable data management.
- Designed and implemented a responsive and intuitive frontend with React with Vite and Tailwind CSS, enhancing user experience through real-time data visualization of REST API calls and seamless intuitive interactions.
- Migrated a PostgreSQL database to a Microsoft Azure SQL database, and hosted the Spring Boot/React application on Azure using Azure Web Apps. Configured GitHub Actions to build and deploy to Azure automatically upon any new commit to the GitHub repository.

PROJECTS

Stills • https://github.com/dhvbnl/dubhacks_2024   **October 2024**
Mobile App Development

- Developed a wellness-focused cross-platform mobile application using Flutter, encouraging personal creativity and mindfulness through daily photographic prompts and a user-friendly interface for Android and iOS
- Integrated device camera and local storage functionality using Flutter plugins like camera and path provider, enabling seamless in-app photo capture tailored to daily prompts.
- Engineered secure local data storage with Hive and AES encryption, utilizing Flutter Secure Storage to ensure all user data remains private and local.

UMix • https://github.com/pranavnt/umix   **October 2023**
Front End Development

- Developed an AI browser extension using JavaScript to update the in-memory DOM, letting the users do real time HTML/CSS updates to a website based on backend API responses created by GPT.
- Worked with backend developers to integrate with a Node.js server powered by GPT-4 AI.

TECHNICAL SKILLS

Go, TypeScript, Java, C++, Python, C, NestJS, Spring Boot, React, Flutter, Tailwind, Axios, Kubernetes, Docker, Microsoft Azure, GitLab CI/CD; PostgreSQL, Git, Rush, Bazel, Vite, VSCode