Rahul Shamkuwar

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EDUCATION

• University of Colorado Boulder

Bachelor of Science in Computer Science; GPA: 3.94

University of Illinois Urbana-Champaign

Bachelor of Science in Aerospace Engineering; GPA: 3.46

SKILLS

Boulder, CO Fall 2022 - Fall 2024

Urbana-Champaign, IL Fall 2020 - Spring 2022

- Languages: Typescript, JavaScript, HCL, HTML, CSS, Python, C/C++, Scala, Dart, C#, Java, SQL, NoSQL.
- Technologies: Node.js, Nest.js, React, Next.js, React Native, Flutter, Tailwind, Swagger, Postman, pandas, NumPy, JupyterLab, Scikit-Learn, PyTorch, Optuna, TensorFlow, Keras, Jest.
- Tools: AWS, OCI, Terraform, Kubernetes, Docker, GitHub Actions, Git, ESLint, Prisma, Firebase, Jira.
- Knowledge: Linux, CI/CD, UI/UX, Cyberbotics: Webots, VMWare, VirtualBox, Data Science, Agile.

EXPERIENCE

• Trimble Cloud

Boulder, CO

Software Engineer September 2023 - Present

- Dashboard Development: Led the design and development of a dashboard website for monitoring emission metrics from AWS and Azure services, collaborating closely with a 6-person team.
- o Cloud Architecture: Crafted and deployed a multi-service cloud infrastructure using Terraform, enhancing operational scalability.
- State Management Setup: Initiated and managed the remote Terraform state file setup using AWS S3 and DynamoDB.
- Security and Load Balancing: Integrated ELB with OpenID for security and efficient load management.

• Blueprint

Boulder, CO

Infrastructure Lead and Software Engineer

January 2023 - Present

- AWS Amplify Deployment: Spearheaded the deployment of Blueprint's website on AWS Amplify, optimizing its scalability, reliability, and performance, resulting in a robust and highly available web infrastructure.
- SSL and Domains: Implemented SSL certificates and configured domain settings, enhancing the website's security and trustworthiness, resulting in improved user confidence and SEO rankings.
- Gatsby to Next.js Migration: Led successful migration of a Gatsby is project to a Next.js framework, improving website performance and scalability while ensuring a seamless user experience.
- SQL Migration: Designed, developed, and executed a migration script using MySQL to transition from legacy to a new database schema, demonstrating deep technical expertise and attention to detail.
- End-to-End Testing: Managed end-to-end testing and validation of migration process, effectively ensuring data integrity, minimal downtime, and zero data loss during the transition.

• Skillsprint

Boulder, CO

Founding Software Engineer

November 2022 - January 2023

- Advanced Authentication Development: Engineered a robust authentication system using JWT tokens and Nest.js route guards, significantly bolstering application security and ensuring secure user access.
- Technological Integration Mastery: Successfully integrated and optimized diverse tech stack (Prisma, Swagger, Prettier, PostgreSQL) for efficient backend service.
- CI/CD: Implemented GitHub Actions to automate testing and cloud deployment, streamlining the CD pipeline to Vercel for frontend and AWS EC2 for backend services, enhancing development agility and reliability.

• ACM@UIUC

Urbana-Champaign, IL

May 2021 - May 2022

Chair of SIG Mobile

- o Mobile App Development Leadership: Led and participated in full-stack development of a mobile app using Flutter for the frontend and Express for the backend.
- Cutting-Edge Website Development: Pioneered the design and development of a dynamic and responsive website for SIGMobile, harnessing the power of Nuxt. is 3 to elevate the club's online presence and accessibility.
- Knowledge Sharing and Skill Enhancement: Fostered continuous learning through organizing and leading Flutter educational sessions, enabling club members to enhance coding skills and adopt industry best practices.

PROJECTS

- HackCU 2024 Winner: Secured 1st place at the 24-hour HackCU 2024 competition by developing a mobile app using Expo and React Native, designed to incentivize lecture attendance through a fantasy football-style bracket system among friends, awarding points for class participation.
- HackCU 2023 Runner Up: Engineered a Chess-Street Fighter-inspired Unity game in just 24 hours, showcasing adaptability and creativity.