

Rahul Shamkuwar

Denver, CO

Mobile : +1-669-282-0030

Email : rahulshamkuwar20@gmail.com

GitHub : rahulshamkuwar

LinkedIn : rahulshamkuwar20

EDUCATION

• University of Colorado Boulder

Bachelor of Science in Computer Science; GPA: 3.91

Boulder, CO

Fall 2022 – Fall 2024

• University of Illinois Urbana-Champaign

Bachelor of Science in Aerospace Engineering; GPA: 3.46

Urbana-Champaign, IL

Fall 2020– Spring 2022

SKILLS

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

EXPERIENCE

• Skillsprint

Boulder, CO

Founding Software Engineer

November 2022 - Present

- **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.
- **UI/UX Leadership:** Led the design efforts for the Athena project's user interface and user experience (UI/UX) by crafting comprehensive wireframes using Figma and MUI components.

• 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 while ensuring seamless integration with AWS services, 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.js 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.

• ACM@UIUC

Urbana-Champaign, IL

Chair of SIG Mobile

May 2021 - May 2022

- **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.js 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.

• Costa Rica Customs Research

Urbana-Champaign, IL

Software Engineer Researcher

September 2021 - December 2021

- **Quality Assurance:** Diagnosed and resolved critical application issues, proactively enhancing user experience by systematically identifying and addressing input-related errors.
- **Innovative Feature Development:** Spearheaded the conceptualization and integration of a cutting-edge User Experience (UX) system, elevating the overall usability and satisfaction of the application.
- **Cross-Functional Collaboration:** Orchestrated productive collaboration with a diverse team of 4 members, harmonizing efforts to achieve project objectives and timelines.

PROJECTS

- **Mobile App:** Conceptualized and crafted an open source, dynamic mobile application that harnessed the power of AniList's GraphQL API, establishing a cutting-edge platform for users to access and interact with anime-related content.
- **Achieved 2nd Place at HackCU:** Engineered a Chess-Street Fighter-inspired Unity game in just 24 hours, showcasing adaptability and creativity.