Rahul Shamkuwar

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EDUCATION

- **University of Colorado Boulder** — Boulder, CO
  Bachelor of Science in Computer Science; GPA: 3.94 — *Fall 2022 – Fall 2024*
- **University of Illinois Urbana-Champaign** — Urbana-Champaign, IL
  Bachelor of Science in Aerospace Engineering; GPA: 3.46 — *Fall 2020 – Spring 2022*

SKILLS

- **Languages**: Typescript, JavaScript, HTML, CSS, Python, Scala, Dart, C/C++, C#, Java, SQL, NoSQL.
- **Technologies**: Node.js, Nest.js, React, Next.js, Flutter, React Native, Tailwind, Swagger, Postman, pandas, NumPy, JupyterLab, Scikit-Learn, PyTorch, Optuna, TensorFlow, Keras, Jest.
- **Tools**: AWS, OCI, Docker, GitHub Actions, Git, ESLint, Prisma, Firebase, Jira.
- **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, 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

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