

Akshay Varma

FULL-STACK SOFTWARE ENGINEER BASED IN BRISBANE

Subclass 485 Visa till Jun 2027, No Sponsorship required, References available on request

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Summary

UX-focused Software Engineer with over 2 years of experience developing applications, offering unique insights to drive growth through user-centric design principles and a proven track record of creating seamless and intuitive user experiences. Currently excelling at Blockstash, an innovative blockchain security startup incubated by IIT Kanpur, India. I remain dedicated to keeping-up with industry-leading technologies, ensuring the delivery of the flagship product. I believe that my approach makes me an ideal fit for forward-thinking organizations that value excellence

Work Experience

Frontend Engineer

Sept 2023 - Present

BLOCKSTASH

Hybrid

- Blockstash is an IIT-K incubated startup specialising in crypto forensics and monitoring various blockchains like TRON, BTC, ETH, to aid investigations using a proprietary tool to visualise transactions and link them to criminal activities.
- Drove a 20% increase in user productivity and reduced cognitive fatigue by addressing specific pain points in user journeys for the flagship product.
- Accelerated product development with various blockchains by 25% through sole implementation of Bitcoin visualization, leveraging specialized knowledge of the Bitcoin transaction protocol.
- Contributed to the Ethereum blockchain visualization tool by developing secondary features in a small, iterative team.
- Technologies:** React, React-flow, Redux, MongoDB, Express, Node, Bootstrap 5

Researcher - ITEE, UQ

Aug 2022 - Oct 2022

ITEE & SCHOOL OF BUSINESS, UQ

Brisbane, Australia

- Conducted research on an IoT experimental platform for sustainability-focused Social Science experiments, integrating blockchain tokens to incentivize eco-friendly behaviors, while collaborating with (A/Prof Marius Portmann)(ITEE) and (Prof. Sara Dolnicar) (School of Business).
- Served as a resident at an IoT Sustainability research-focused UQ residential college, overseeing the extraction of valuable insights from ongoing experiments. These insights played a crucial role in refining experiments, aligning them with research goals, and optimizing resource utilization.

Research Student

Jan - Dec 2022

HUMAN-CENTRED COMPUTING, ITEE - UQ

Brisbane, Australia

- Developed a cross-platform mobile app for second language learners, emphasizing culturally authentic academic content.
- Collaborated in academia, presenting a prototype (figma.fun/7Honye) and development roadmap with firebase and flutter.
- Contributed to language learning in a social and culturally authentic university environment, facilitating improved understanding of discipline-specific course materials for lecturers and second language students.
- Techniques:** Contextual inquiries, Interviews, and Co-Design workshops, Design Guidelines, Figma, Firebase, Flutter.

Data Science Engineer (Internship)

May - July 2019

ZEENGAL TECHNOLOGIES, INDIA

Kanpur, India

- Implemented advanced web scraping techniques using Python, Requests, and Socket Programming for precise data extraction.
- Managed SQL databases, optimizing data accessibility.
- Technologies:** Python, MySQL, Oracle, and REST API for data operations.

Education

Bachelors of Engineering (Hons.) - Software Engineering - University of Queensland

Feb. 2021 - Dec. 2022

GPA 5.81/7.0 - HONOURS IIA

Brisbane

- Transferred from ICAS, Manipal Academy of Higher education, Manipal, India
- Vice Chancellor's Global Scholar Award for Academic Excellence with 35% scholarship.
- Notable courses (6+/7):** Human Computer Interaction, Advanced Security, Professional Practice, Compilers and Interpreters, Studio -3 Build
- Meet a Mentor - 2021** Under the mentorship of UQ Alum Timothy Marks, the Sr. Director of engineering at X formerly Twitter, to learn about management and career development in the tech sector.

Skills

Soft Skills Collaborative Team Player, Independent Self-Starter in Agile Environments, Effective Presentation Skills, Quick Adaptation to new tech stacks

Tech Skills JavaScript, TypeScript, JAVA, Python, C, NoSQL DB, SQL DB - Versatile and adaptive in utilizing various languages

Frameworks / Libraries - React, NextJS, NodeJS & Express, Redux, Bootstrap, Tailwind CSS

Projects

Overflow - A re-imagined stack overflow

[overflow.vercel.app](#) | [Github](#)

- Built with Next.js 14, Tailwind CSS, MongoDB, Clerk Auth and OpenAI API. Deployed on Vercel. Built 20+ server actions to reduce api endpoints. Achieved exceptional Lighthouse scores of 95+/100 across all categories, attesting to its optimized performance.
- Notable Features:** Recommendation system for posts AI-generated answers, a Badge Reputation System, and a robust Views and Voting Mechanism. Implemented global database search for seamless content retrieval, coupled with Filter and Pagination, enhancing user interactions and ensuring a smooth browsing experience.

Venue - An Airbnb-like app for venue reservation

[venue.av10.tech](#) | [Github](#)

- Developed on Next.js 13, Tailwind CSS, MongoDB. Deployed on Vercel, achieving a commendable Lighthouse score of 90+ in all categories.
- Notable Features:** Implemented OAuth2 authentication (credential, Google, GitHub), image upload using Cloudinary CDN, booking/reservation system. Created and deleted properties for a versatile user experience.

Morpheus - A Client-Side File Converter

[morpheus.av0.tech](#) | [Github](#)

- Built using Next.js 13, Tailwind CSS, and ffmpeg WebAssembly. Ensures seamless and secure file conversions directly in the web browser. Achieved cross-platform compatibility with a Lighthouse score of 95+ in all categories.
- Notable Features:** WebAssembly for lightning-fast client-side processing, prioritizing privacy with no file uploads or intermediaries.

All Projects

[av10.tech/projects](#)