

Rohan B. Sonawane

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Portfolio: rohansonawane.tech | Linktree: linktr.ee/rsonawane

SKILLS

Software & Web Development: PHP, Python, JavaScript, TypeScript, C++, C#, Go, React, Node.js, Django, Flask, RESTful API, GraphQL, HTML5, CSS3, Tailwind, UI/UX, WordPress, Shopify, E-commerce Development

AI/ML & Data Science: TensorFlow, PyTorch, Scikit-learn, Machine Learning, Deep Learning, NLP, LLMs, CNNs, RNNs, GANs

Cloud, DevOps & Tools: AWS, Google Cloud, Digital Ocean, Docker, CI/CD, Jenkins, Git, JIRA, MySQL, MongoDB, Unity, A-frame.js, AR, VR, Scrum, Agile

EDUCATION

California State University, Dominguez Hills

Los Angeles, CA

M.S. in Computer Science (GPA: 3.8)

Aug 2023 - May 2025

- **Director of Student Services at Associated Students Inc. (ASI)** - Developed and implemented inclusive student services programs, collaborating with campus departments to address diverse student needs.
- **Indian Students Organization (President):** Fostered a community of **50+** members by organizing events like Resume and LinkedIn Profile building and optimizing, Diwali and promoting cultural exchange and support.
- **Related Coursework: Data Structures & Algorithms**, Computer Organization & Programming, Machine Learning, **Artificial Intelligence**, Object-Oriented Analysis & Design Methodology, **Design and Analysis of Algorithms**, **Cloud Computing**.

EXPERIENCE

California State University - Dominguez Hills

Los Angeles, CA

AR/VR Research Assistant

Oct 2023 – Present

- **Developed an AI-powered virtual teacher and immersive classroom in Unity**, utilizing C#, OpenAI API, and XR Toolkit, enhancing VR educational applications for interactive learning.
- **Engineered custom NPC communication modules with OpenAI API**, improving interaction quality by 40%, through the design of real-time, immersive systems for virtual characters in Unity.
- **Pioneered research for VR educational tools**, creating a strategic roadmap for future app development, prioritizing user engagement and immersive learning experiences in VR environments.

Self-Employed

Mumbai, IN

Full Stack Software Development Engineer

Oct 2020 – Jul 2023

- **Developed custom web applications**, improving performance and user experience by 50%, through the integration of PHP, Python, JavaScript, React.js, Node.js, MySQL, SQLite, Django, WordPress, and other frameworks.
- **Streamlined deployment processes**, reducing deployment times by 40%, by optimizing CI/CD pipelines using GitHub Actions and Docker for faster and more efficient application delivery.
- **Enhanced project security**, reducing security breaches by 80%, by implementing web security best practices like input validation, HTTPS, and CSP, while regularly updating third-party libraries and frameworks to mitigate vulnerabilities.

Briefkase Digital Communications Private Limited

Mumbai, IN

Full Stack Software Development Engineer

Jun 2016 – Sep 2020

- Enhanced project efficiency **resulting in 50% faster delivery** and **80% fewer bugs**, by leading a team of **5 engineers** and following agile practices such as **daily scrums and knowledge transfer sessions**.
- Built **60+ websites and plugins**, improving **performance** by **40%** through tailored solutions to meet client needs.
- Deployed high-performance **e-commerce websites** scaling to **100000+** users monthly, by building and managing platforms.

PROJECTS

Interactive Hate Map - <https://cjp.org.in/hate-map>

- Developed a **mobile-optimized hate-mapping** webapp using Mapbox API, HTML5, CSS3, JavaScript, and PHP to track hate incidents across India, delivering seamless and interactive experience that increased return visits by **50%**.
- Enhanced data efficiency by **50%** by converting **CSV files to JSON**, optimizing data handling and loading speeds, while transforming **UI/UX** for maximum engagement, resulting in a **60% increase in user interaction** and map exploration rates.

Cryptocurrency VR Experience - <https://github.com/rohansonawane/arvr-crypto>

- Developed an immersive VR platform to simulate cryptocurrency transactions, utilizing **A-Frame** framework.
- Integrated potential **NFT functionalities** to explore advanced blockchain applications within the VR environment.

Portfolio Website - <https://rohansonawane.tech>

- **Designed and developed** a fully responsive portfolio website **boosting user engagement by 35%**, **by developing** the site with **Next.js**, react.js and node.js and ensuring content loading and **server-side rendering** for SEO optimization.
- **Achieved** high-performance scores **with Lighthouse scoring 95+**, **by optimizing** the website for speed and smooth UI/UX using **CSS animations** and **Framer Motion**.