

Vivan D Bheda

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EDUCATION

University of California, Irvine

Irvine, CA

Bachelor of Science in Computer Science; Minors in Economics and Innovation & Entrepreneurship

Expected: June 2028

- Relevant Coursework: Data Structures, Artificial Intelligence, Machine Learning, Probability & Statistics, Linear Algebra, Discrete Mathematics, Computer Organization & Assembly, Operating Systems, Object-Oriented Programming.

WORK EXPERIENCE

Full Stack Developer

June 2026 – Present

Right Click Inc.

Irvine, CA

- Built, shipped, and maintained full-stack B2B web applications for client companies in Python, TypeScript, and JavaScript.
- Delivered new builds, major feature upgrades, and legacy-code modernization across 5 concurrent client projects.
- Automated manual data-entry and reporting workflows with production tools, saving clients up to ~20 hrs/week and replacing entire paper-based processes.

Lead Website Development & Research Intern

June 2025 – Apr 2026

Games+Learning+Society (GLS) Center

Irvine, CA

- Built and maintained the GLS Center website end-to-end, serving 2,000+ monthly visitors with responsive, cross-device UI.
- Raised site engagement by ~20% through responsive UI improvements and regular research-driven content updates.
- Collected, reviewed, and analyzed data for NSF-funded research on gaming, e-sports, and online communities.

M&A Tax Technology Intern

July 2025 – Aug 2025

Ernst & Young

Mumbai, IN

- Built AI and automation initiatives for EY's M&A Tax team, driving efficiency across daily team workflows.
- Developed and delivered internal AI training, including a hands-on workshop on practical AI applications and tools.
- Built and deployed an automated Outlook-integrated task-tracking system on internal EY servers, adopted by the team to streamline tracking and speed up communication.

Communications & Sponsorship Chair

June 2025 – Feb 2026

AI@UCI

Irvine, CA

- Led communications, brand strategy, and sponsor engagement for one of UCI's largest AI clubs (1,500+ members).
- Secured sponsorships from major tech firms to fund the club's events, workshops, and hackathons.
- Built scalable outreach strategies and partnerships with companies and campus orgs to drive membership growth.

Growth Intern

June 2025 – Sept 2025

Hype App

Irvine, CA

- Built and managed a pipeline of prospective brand partners through targeted outreach on LinkedIn and email.
- Ran market research and executed pre-launch growth initiatives to attract early users and partner companies.
- Developed outreach materials and community-building strategies to drive early traction before launch.

PROJECTS

Minesweeper-Solving AI | C++

Apr 2026 – June 2026

- Built a Minesweeper AI in C++ modeling the board as a constraint-satisfaction problem with unit propagation, subset-subsumption inference, and exact CSP frontier enumeration, reaching ~90% / ~85% / 41% win rates on Beginner / Intermediate / Expert.
- Optimized the C++ solver to a hard <50 ms/move budget via union-find frontier decomposition and bounded DFS backtracking, computing exact per-cell mine probabilities with combinatorial Bayesian weighting.

The Twelfth Man | Python, FastAPI, React, PostgreSQL, StatsBomb API

Oct 2025 – Present

- Built a full-stack analytics platform end-to-end - FastAPI backend, React frontend, PostgreSQL - serving match analysis, simulations, and reporting to a live dashboard.
- Engineered ML pipelines for tactical clustering, xG prediction, and Monte Carlo simulations (10K+ runs) to model win probabilities.
- Built a coach dashboard in React and FastAPI for visual reports, tactical suggestions, and auto-generated training plans.

Research Paper | Artificial Intelligence, Machine Learning, Ed-Tech

June 2022 – Aug 2022

- Published a peer-reviewed paper on AI and robotics in education in the Int'l Journal of Scientific Research in CS & IT.
- Reviewed 48 sources (refined to 25), analyzing the benefits, challenges, and implications of AI-driven education models.

Maitri | Java, Firebase, UI/UX

May 2022 – Sept 2024

- Developed a social-impact Android app connecting ~25 families in need with verified donors for essential resources.
- Streamlined donor matching, partnered with NGOs to validate needs, and expanded outreach to grow beneficiary support.

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL, TypeScript, JavaScript, R, Bash, HTML/CSS **Frameworks:** React, Node.js, Flask, FastAPI, TensorFlow, PyTorch, JUnit **Tools:** Git, Docker, GCP, AWS, PostgreSQL, VS Code, Postman, Figma, Firebase
Libraries: pandas, NumPy, Matplotlib, Scikit-learn, LangChain, Hugging Face