

Akshetha Vishnu Prasad Dhivya

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EDUCATION

University of California, San Diego | GPA: 3.62 Expected Jun 2028
Bachelor of Science in Computer Science, Minor in Cognitive Science San Diego, CA

- **Coursework:** Advanced Data Structures, Discrete Math, Algorithmic Computation, Computer Organization, Linear Algebra, Multivariable Calculus, Data Science in Practice, Systems Programming

TECHNICAL SKILLS

Languages: Python, Java, C, C++, C#, JavaScript, HTML, CSS
Tools & Frameworks: Git, OpenAI API, TensorFlow, PyTorch, MediaPipe, BeautifulSoup, Unity, Flutter
Awards: India Patent #423873-001 — AI Cloud Security Device, Draper University Hackathon Scholarship, WGASC Scholarship Winner, NHS Scholarship, CA Scholarship Federation Award, President's Award for Educational Excellence

PROJECTS & RESEARCH

Early Research Scholars Program (ERSP) | UC San Diego Sep 2026 – Present

- Researching **pruning strategies** for ensembles of compact **neural networks deployed on FPGAs** to reduce hardware resource usage while preserving model performance.
- Collaborating in a 4-student team under **Prof. Ryan Kastner** to evaluate model architectures and design tradeoffs for **low-latency, resource-constrained inference**.

Delve | Financial Analysis & Prediction Dashboard Jun 2026 – Present

- Built a full-stack financial dashboard in **Python** that pulls real-time and historical stock data, cross-validating prices across independent sources with automated discrepancy detection.
- Implemented a **geometric Brownian motion model** and integrated **Alpha Vantage and Finnhub APIs** with **BeautifulSoup**-based scraping to aggregate news sentiment, generating statistically-grounded price projections.

Generative AI Chatbot | Draper University & Google Hackathon Jul 2024 – Jul 2024

- Placed **1st out of 80+ competitors** and received a **Draper University scholarship** for building an AI chatbot using **the OpenAI API, JavaScript, and HTML** to address **California's homelessness crisis**, integrating natural language responses and resource guidance.

AI-Based Cloud Security Device | Patent Recognition Jan 2024 – Aug 2024

- Researched and helped design an AI-based system for **automated cloud threat detection and anomaly analysis** under a team of **5 PhD professors**, contributing to a **patent grant** from the Indian Patent Office.

EXPERIENCE

Lead Developer | MAVERiC Studio - UC San Diego Apr 2026 – Jun 2026

- Co-developed and shipped **VVho**, an XR experience built using **Unity, Udon scripting, Blender, and VRChat's** creation tools, engineering multifaceted interaction systems and released on **iOS and Android**.
- Exploring **drone-based 3D mapping** and **depth-sensing cameras** to prototype new sensing and interaction methods for XR.

LEADERSHIP

Vice President | Triton XR Oct 2025 – Present

- Spearheaded **sponsorship outreach**, pitching Triton XR to **50+ companies** to secure funding, hardware, and partnerships supporting **60+ active members**.
- Leading planning and execution of **HackXR**, a campus-wide hackathon for **40+ participants**, coordinating **VR/AR/Unity/Unreal challenges**, starter kits, and event logistics.

Game Developer / Outreach Officer | UCSD Video Game Development Club (VGDC) Sep 2025 – Present

- Researched and shared **30+ internships, scholarships, competitions, and development opportunities** with a **500+ member community** as Outreach Officer.
- Developed gameplay systems and minigames using **Unity and C#** within a **23-member development team**, presenting completed games to **80+ participants** during showcases and game jams.

EMPLOYMENT

UCSD Transform Aug 2026 – Present
Engineering Assistant, Office of the Strategic Initiatives Manager San Diego, CA

- Developed a **web-scraping system to automate data extraction**, replacing manual staff training tracking with a faster, reliable process.
- One of **three student assistants** working under UCSD Transform's Strategic Initiatives Manager, supporting staff training and event coordination operations.