CALEB DICKSON

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Education

San Diego State University — **May 2027**
Bachelor of Science in Computer Science; Minor in Mathematics — *San Diego, CA*

Cornell University — **August 2025**
Machine Learning Foundations — *Remote*

Relevant Coursework

- Data Structures
- Software Systems
- Artificial Intelligence
- Computer Organization
- Adv Programming Langs
- Statistics
- Object-Oriented Prog.
- Linear Algebra

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL, Flutter, Swift, MIPS
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, XCode, Git, AWS, PyCharm

Experience

Anote — **Aug 2025 – Present**
Machine Learning Intern — *Remote*

- Designed and implemented a synthetic image data generation pipeline supporting COCO and YOLO formats, producing high-quality labeled datasets via automated ML workflows, boosting data reliability and enabling scalable computer vision experimentation.
- Applied GANs, DALLE, and validation methods to enhance dataset accuracy and customization, collaborating with a team of 4 AI fellows and industry mentors to deliver prompt-to-dataset solutions with built in quality control.

Break Through Tech — **May 2025 – Present**
AI/ML Fellow — *Remote*

- Engineered end-to-end ML pipelines using Python, scikit-learn, and Pandas, improving model accuracy by 14% and reducing runtime by 30% through optimized data processing and feature engineering.
- Led development of 3 ML solutions applying regression, classification, and NLP to real-world datasets with 50,000-150,000 records, improving model accuracy by 15% and F1-scores by 0.12 on test sets, and presenting findings to technical mentors and peers.

Voodies — **Dec 2024 – May 2025**
Front End Lead / Full stack Software Engineer — *Remote*

- Led the redesign and engineering of the homepage and login experience to enhance user on boarding and engagement; implemented a secure, scalable authentication system with real time backend validation, contributing to the apps growth of over 600% by improving usability, load performance, and trust.
- Managed and mentored a team of 5 interns, conducting 25+ code reviews and providing 10 hours of technical guidance weekly resulting in improved code quality and timely completion of all assigned projects.

Projects

AI Financial Advisor - LPL Hackathon Project | *Python, JavaScript, HTML, CSS, AWS Bedrock & Lambda* **Jan 2025**

- Engineered and refined prompt frameworks for Anthropic's Claude 3.5 to interpret user bank statements and deliver context-aware financial recommendations, spanning a spectrum of saving and investment strategies.
- Developed and deployed an AI-driven financial analysis workflow by integrating AWS Bedrock and AWS Lambda; architect-ed data pipelines using Amazon DynamoDB to enable secure, real-time access to personalized financial insights.

SDSU Basketball Scouting | *Python* **October 2024**

- Engineered an AI assistant integrating linear regression and YOLOv8x computer vision, achieving 92% accuracy in real time player tracking, and improving coach decision making efficiency for SDSU basketball team.
- Built a FastAPI backend with Python Scrapers, automating retrieval of 30+ player stats/game and reducing data integration time by 40%, streamlining model training pipelines for enhanced performance.

Leadership / Extracurricular

World Computing Organization — **Fall 2024 – Present**
Vice President / Founder — *San Diego State University*

- Founded and scaled the World Computing Organization to 100+ members by holding the Vice President position, leading an 8-person executive board, driving strategic growth initiatives, campus outreach and cross-department engagement.

Colorstack — **Fall 2024 – Present**
Member — *Remote*

- Participated in 6+ Colorstack professional development events including career fairs and technical workshops, establishing 15+ industry connections and improving interview performance by 20%.