Devin Hua

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EDUCATION

University of California Irvine   Irvine, CA
B.S. Computer Engineering   *Sep. 2024 - Jun. 2027*

EXPERIENCE

Bay Area Rapid Transit (BART)   Oakland, CA
  Cyber Security Intern   *Jun. 2024 - Aug. 2024*
- Automated security workflows and improved threat detection using Python tools (**Tines.io** and **Elastic),** applying problem-solving skills to streamline alert handling across a network of 400K+ users
- Conducted **vulnerability assessments** with **NMAP**, identifying and mitigating network risks across **50+ networked systems** to strengthen internal security posture.
- Collaborated with **SolarWinds engineers** to evaluate SSH automation solutions for **remote access to over 700 network devices,** improving manageability of distributed infrastructure.
- Designed an **Ansible playbook** in **Ubuntu** to automate software deployment, reducing manual update time by **40%** and ensuring consistent patching across all workstations.

Encinal High School   Alameda, CA
  AP Calculus BC Teaching Assistant   *Oct. 2022 - Jun. 2023*
- Taught and supported **25+** AP Calculus BC students, strengthening problem-solving and technical communication skills
- Produced exams, worksheets, and instructional materials that improved student engagement and outcomes (**50% scored 3+ on exam**)

PERSONAL PROJECTS

Heart Disease Prediction   *Nov. 2025 - Present*
- Built a predictive ML model to identify heart disease using a public dataset
- Performed **data cleaning, preprocessing**, and **exploratory data analysis** with Python (Pandas, NumPy, Matplotlib, Seaborn)
- Trained and evaluated multiple models: **Logistic Regression (85.2% accuracy), Random Forest (83.6%), SVM (86.8%)** using Scikit-learn
- Visualized feature distributions and correlations to inform model selection and feature engineering
- Planned next steps: **hyperparameter tuning, advanced feature engineering, and model deployment**.

StudyHub   *Nov. 2025 - Present*
- Developed a **full-stack Reddit-style social media platform** where users can create posts, join communities, like, and comment in real-time
- Integrated **Supabase** for user authentication, database management, and backend services, enabling secure, scalable data storage without building a custom backend
- Designed a **responsive, modern UI** with **React** and **Tailwind CSS** for seamless user interaction across devices
- Implemented **real-time updates** for posts, likes, and comments, to improve engagement and interactivity

Learnlytics   *Sep. 2025 - Present*
- Built a responsive educational analytics platform using **React**, **Tailwind CSS, Supabase** authentication, and **Chart.js** visualizations to help users track progress and identify weak areas
- Developed **dynamic UI components**, interactive navigation, and a **consistent design system** while integrating personalized data and generating performance insights

SKILLS & OTHER

Programming Languages: Python, C/C++, Java, JavaScript, SQL
Tools & Technologies: React, Node.js, Tailwind CSS, Elastic, Ansible, Ubuntu, SolarWinds, Tines, Vercel, GitHub
Concepts / Highlights: Full-stack development, AI/ML foundations, backend engineering, databases (SQL/PostgreSQL), automation, REST APIs, CI/CD basics, software engineering principles, debugging, problem-solving