Kevin T. Do

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EDUCATION

University of California, San Diego   **La Jolla, California**
B.S. in Computer Science, Business Minor   *Expected Graduation, March 2026*

- **GPA:** 3.62/4.00
- **Relevant CS Coursework:** Computer Organization & Systems Programming, Advanced DS, Theory of Computability, Software Engineering, Components and Design Techniques for Digital Systems, Intro to Computer Architecture, AI: Search and Reasoning, Principles of Computer Operating Systems, ML: Learning Algorithms, Statistical NLP, Web Client Languages, Computer Graphics, Entrepreneurship for Engineers, ML for Music
- **Relevant Business Coursework:** Personal Ethics at Work, Principles of Accounting, Product Marketing & Management

WORK EXPERIENCE

Amazon   **Sunnyvale, California**
Software Development Engineer Intern   *June 2025 - Sept 2025*

- Designed and architected a scalable system to restore invalid data access relationships (subscriptions) between data producers and consumers in AWS environments
- Developed automated recovery system with retry mechanisms, failure handling and process monitoring

Vetscribe   **San Diego, California**
Software Engineering Intern   *July 2024 - March 2025*

- Developing a full stack web and mobile application using AWS Amplify, Expo, and React.
- Designed a live recording waveform and toast notifications, improving user experience.
- Developed AWS lambda functions for template management, reducing editing time by over 80%.

System Energy Efficiency (SEE) Lab UC San Diego   **La Jolla, California**
Student Research Assistant   *May 2024 - Dec 2024*

- Improved hyperdimensional computing mass spectrometry data clustering tool, HyperSpec, by expanding support for multiple input file types, increasing compatibility and usability.
- Installed and ran mass spectrometry clustering tools like ANN-SoLo on CUDA-1 and CUDA-2 servers and collected data on speed and accuracy.

PROJECT EXPERIENCE

Custom Instruction Set Architecture   **La Jolla, California**
Architect and Programmer   *Mar 2024 - June 2024*

- Planned and designed our own ISA limited to 9 instruction bits and implemented the architecture in SystemVerilog.
- Made the individual components including ALU and control decoder; tested implementation with Quartus and ModelSim.
- Used assembly language to solve coding problems like Hamming distance and Robertson's multiplication and created an assembler to translate from the assembly code to machine code.

Successorator   **La Jolla, California**
Full Stack Developer, Team of 6 Students   *Jan 2024 - Mar 2024*

- Built and deployed a modular Android To-Do List app with Android Studio, through planning User Stories and Iterations.
- Used Android Room persistence library with SQLite to save added goals that rollover onto the next day.
- Developed a functional dropdown to display today's, tomorrow, pending, and recurring goals and a focus mode menu for users to display only goals for home, work, errands, etc.

Opinions - A Question A Day   **West Lafayette, Indiana**
Full Stack Developer, Team of 4 Students   *Jan 2024*

- Integrated OpenAI LLM with Python News API to generate daily "Would You Rather" and discussion-sparking questions.
- Designed a Firebase Firestore Database for user data, question storage, and response tracking.
- Deployed the application using Quart/Flask on Microsoft Azure, enabling scalable performance.

TECHNICAL SKILLS

Tools and Frameworks: React, Quart/Flask, TailwindCSS, Firebase, AWS Amplify, Figma, Expo, Pandas, scikit-learn, Git, Unity
Languages: Java, Python, C, C++, C#, Bash, HTML, CSS, JavaScript, Assembly (ARM, MIPS), SystemVerilog, OpenGL
Techniques: Agile software process, BDD, Unit testing, Object mocking, Continuous integration, Single Responsibility Principle, Dependency Inversion, Open-Closed Principle, Design Patterns (Strategy, Observer, MVP, Abstract Factory, Builder)