Diego Hernandez

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Education

California State University, Northridge, BS in Computer Science — August 2018 – May 2025

- **Coursework:** Calculus 1 & 2, Data Structures, Computer Architecture, Linear Algebra, Discrete Structure, Advanced Data Structures, Operating Systems, Software Engineering, Algorithm Design, Web Engineering 1 & 2, Human-Computer Interaction, Database Design, Networks and Security, Probability & Statistics, Senior Design

Experience

Robotics Coach, Harvard-Westlake School TEAM 462/62 — August 2025 - Present

- Taught engineering fundamentals and mentored 12 highly competitive robotics teams through the engineering design process, requirements analysis, and software development. Teams saw differing levels of success from reaching Division Finals at Worlds to having every team qualifying for California Region State Tournament.
- Mentor students in developing C++ control systems, implementing PID, odometry, and subsystem integration.
- Certified Referee for VEX V5 2025-26 Pushback, extensive knowledge on game strategy and design.

Software Engineer, Freelance – Remote — January 2023 – May 2023

- Collaborated with engineering and manufacturing teams to design a multi-version software solution tailored to their internal processes.
- Built Python automation tools with a user-friendly UI to generate CAD approval reports and streamline large file transfers over VPN, reducing transfer times by 40-60% and saving up to 10-14 hours per task.

Awards/Certificates

29th Annual Student Research & Creative Works CSUNposium — April 2025

SolidWorks Mechanical Design Associate Certificate — December 2019

VEX Robotics VRC Competition Awards — August 2014 - June 2018

- Programmer Award (2x), Tournament Champions, Build Award, State Championship Qualification (2x)

Projects

Airline Ticketing System: Team Lead/Manager — github.com/Dijuego/Comp-380-Project

- Features: Report generation and data dashboard, email confirmation, reserve seating, cancellation, and ticket modification. Tools Used: Java, JavaFX, JSON, Intellij IDEA, Github

Pick-Up (Ranked Basketball App): Team Lead/Manager — github.com/Dijuego/comp490

- Features: REST API, Client/Server structure, profile page, friends list/search, match feed/history, ELO rating system, player honesty rating, inter-user interaction
- Tools Used: JavaScript, TypeScript, Node.Js, React Native, Figma, Github, AWS EC2/RDS/Route53, MySQL, Caddy Server, Glitch

Multiple Websites — 2024-2025

- Timed Type Racer, CSUN Campus Geo Guesser, 2020 NBA Post-Season Dashboard, IT Inventory Manager
- Tools Used: HTML, CSS, JavaScript, ASP.NET, Microsoft Sql Server, Angular, Entity Framework, JWT, SQLite, AWS EC2/RDS

Technologies

Languages: Java, C#, C++, SQL, JavaScript, Python, HTML, CSS, TypeScript

Technologies: ASP.NET, Microsoft SQL Server, Git, VS Code, Jira, Visual Studio, Figma, AutoCAD, SolidWorks, Node.JS, React Native, MySQL, SQLite, Angular, AWS EC2/RDS/Route53, Expo, Zustand, Supabase