Mark Ryan Garcia

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Education

California State University, Fullerton Aug 2022 – May 2026
B.S. in Computer Science, Minor in Mathematics *GPA: 3.8*

Experience

Software Engineer Intern Jan 2026 – Present
Glenair, Inc. *Anaheim, CA*

- Developed API integration tests using Pytest to validate endpoint reliability, data integrity, and error handling
- Built a REST API to collect and store internal server metrics and system metadata using a relational database

Software Engineer Intern May 2025 – Aug 2025
Glenair, Inc. *Anaheim, CA*

- Engineered a full-stack web application to generate Zebra printer label templates, printing approximately **~600** labels per week, utilizing React, FastAPI, SQLAlchemy, SQL Server, Labelary API, and Zebra Printer Language
- Integrated inventory and job-order APIs to auto-populate part and job numbers into a custom Zebra label template, eliminating manual entry errors, guaranteeing **100%** audit-trail accuracy, and accelerating workflows
- Optimized Flask API endpoints by integrating MinIO storage buckets with SQL Server, reducing average file retrieval latency by an average of **60%** compared to retrieving raw binary files from SQL tables

Supplemental Instruction Leader Jan 2024 – Dec 2025
California State University, Fullerton *Fullerton, CA*

- Increased student grades and comprehension an average of **10%** by leading **120** peer-assisted study sessions across four semesters and developing targeted review materials that simplified key Calculus I and II concepts
- Utilized innovative teaching methods such as guided group discussions, collaborative problem-solving, and peer-to-peer interaction to create an engaging learning environment that reinforced foundational calculus topics

Projects

Sudoku Visualizer | *React, Typescript, Tailwind CSS* Dec 2025

- Built an interactive Sudoku solver and visualizer, displaying step by step solving decisions in real time
- Implemented multiple solving strategies including backtracking, backtracking with forward checking and MRV heuristics, and an emulation of a human style approach to solving a sudoku puzzle

Endless Vertical Platformer | *C#, Unity* Feb 2025 – Mar 2025

- Designed and led a Unity workshop where over **20** students learned how to build an endless platforming game
- Demonstrated core game mechanics such as jump physics, player input, platform spawning, and collision handling
- Published starter assets such as sprites and C# Scripts to help students follow along and add to the game

Marktris | *Godot Engine, GDScript, Vercel* Jan 2024 – Mar 2024

- Built a fully playable Tetris game using the Godot Engine and GDScript, implementing modern gameplay features including collision detection and the Super Rotation System (SRS) for piece movement and rotation
- Deployed the game to the web using Godot's Web Export Tool and Vercel for easy access and sharing

Extracurricular

Association for Computing Machinery (ACM) | *Club President, Board Officer* Aug 2022 – Present

- Lead the largest tech student organization at CSUF with over **2,500** members and **~55** officers across 10 branches
- Supported ACM's community growth by serving as the Marketing Team Lead, a GameDev Officer, and Node Buds Big, managing social media presence, leading Unity workshops and mentoring new members

FullyHacks | *Co-Director, Marketing Team Lead* Sep 2024 – Present

- Co-Direct FullyHacks 2026, CSUF's biggest hackathon, expecting **400+** participants, **30+** event organizers
- Doubled outreach from previous year and secured **$1,500** in new sponsorships for FullyHacks 2025

Technical Skills

Languages: Python, Javascript, Typescript, HTML/CSS, MySQL, C/C++, C#, R, MATLAB
Frameworks/Tools: Git, React, FastAPI, Flask, Material-UI, MinIO, Docker, Unity