

Nick Withers

nickwithers26@gmail.com | (916) 955-9258 | nick26.dev | El Dorado Hills, CA

EDUCATION

University of California, Davis - BS Computer Science

September 2019 - December 2022

GPA: 3.96 - Graduated with Honors

SKILLS

- **Languages:** C, C++, C#, Java, JavaScript, Python, SQL, HTML, CSS
- **Frameworks & Libraries:** .NET, Entity Framework, React, Next.js, Tailwind CSS, PyTorch
- **Tools & Platforms:** Visual Studio, VS Code, Git, Azure DevOps, Postman, OpenAI API, SQL Server Management Studio, Power BI, Power BI Report Builder, Vercel, Jira, TestComplete
- **Technologies & Concepts:** REST APIs, LINQ, CI/CD, Agile Development, Parallel Programming, Responsive Design
- **Soft Skills:** Critical thinking, problem solving, effective written and verbal communication

EXPERIENCE

Software Developer - California Franchise Tax Board (IT Specialist 1)

May 2024 - Present

- Developed a custom C# application with modular sync processes to retrieve and consolidate asset data from multiple external APIs into internal databases using .NET, Entity Framework, and parallel programming
- Designed and implemented a RESTful API using .NET Core and C# to support internal application logic, enabling secure and scalable communication with backend services
- Refactored legacy tools by replacing stored procedures with LINQ-based implementations, improving performance, maintainability, and code clarity
- Created complex SQL schema and cross-database queries; built interactive dashboards in Power BI and paginated reports using Power BI Report Builder driven by custom SQL views
- Supported enterprise rollout of a cloud-based asset management platform, including agent deployment, data validation, and compliance tracking

Software Test Automation Engineer - Boeing

August 2023 - May 2024

- Automated test cases for web applications using JavaScript and TestComplete
- Built a regression test suite and validated new features as an active contributor on a Scrum team
- Helped design and implement a reusable test automation framework for continuous web application testing

PROJECTS

LogoBuddy – AI Logo Generator (logobuddy.app)

- Built and deployed a full-stack AI-powered logo generation web app using Next.js, Tailwind CSS, and the OpenAI API, enabling users to create clean, professional logos based on brand inputs
- Designed and implemented a responsive UI with controlled form inputs, real-time loading states, and dynamic image display/download functionality

Company Website (lycheebyte.com)

- Designed and developed a fully responsive, single-page business website using Next.js, Tailwind CSS, and Vercel, emphasizing performance, visual design, and modern UI patterns
- Implemented smooth scroll navigation, project carousels, and reusable components to communicate the company's services and strategies

Cryptocurrency Discord Bot

- Built a Python bot using the Live Coin Watch API to fetch real-time token data, respond to user commands, and auto-update its Discord status with token prices every 30 seconds

Technical Coursework Highlights (2022)

- **Computer Graphics:** Built a 3D WebGL renderer with Phong shading and texture mapping
- **Artificial Intelligence:** Implemented A* pathfinding for a terrain navigation program, used minimax for Connect 4, and trained a Q-learning agent to play Pong
- **Web Programming:** Developed full-stack apps and games using React, Node.js, SQLite, and REST APIs, including a dynamic reservoir data dashboard
- **Computer Vision:** Created custom image filters and edge detection in MATLAB, implemented robust image stitching using Harris corners, SIFT, and RANSAC, and trained image classifiers using PyTorch

INTERESTS

- Gaming, Blockchain, Fashion & Design, Reading, Golf, Running, Hiking, Snowboarding, Travel