

# Alvaro Torres

## Software Engineer

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## PROFESSIONAL SUMMARY

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Software Engineer with 4+ years of experience in web applications and software solutions. Proficient in JavaScript, C++, React, and Node.js, with expertise in building scalable, high-performance systems. Currently pursuing a B.S. in Computer Science (AI Concentration) at Full Sail University (4.0 GPA) while balancing freelance work and entrepreneurship. Passionate about mentoring, problem-solving, and developing innovative tech solutions.

## TECHNICAL SKILLS

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**Programming Languages:** C++, JavaScript, PHP, Python

**Front-End Development:** HTML, CSS, React, Vue.js, Vite, Tailwind CSS, Styled Components, jQuery, Context API, REST API

**Back-End Development:** Node.js, Express.js, Redis, MongoDB, Docker

**Software Development & Methodologies:** Agile, Singleton Pattern, Object-Oriented Programming (OOP)

**Version Control & Tools:** Git, GitHub, Postman, MongoDB Compass

**UI/UX & Prototyping:** Figma, FigJam, Wireframing, Prototyping

**CMS & E-Commerce:** WiX, Shopify, WordPress, Squarespace, Webflow, Liquid, Velo

**Hosting & Deployment:** Netlify, Heroku, cPanel

## PROJECTS

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### Scientific Calculator (C++ & wxWidgets)

February 2025 - March 2025

- Designed and developed a GUI-based scientific calculator in C++ using wxWidgets.
- Implemented the Shunting Yard Algorithm for parsing mathematical expressions efficiently.
- Utilized the Singleton Pattern for centralized calculator state management, ensuring optimized memory usage.
- Integrated error handling and input validation, preventing invalid computations.

### Conway's Game of Life (C++ & wxWidgets)

November 2024 - December 2024

- Constructed an interactive Graphical User Interface (GUI) using wxWidgets to simulate Conway's Game of Life.
- Implemented Object-Oriented Programming (OOP) principles and enhanced performance for dynamic grid resizing.
- Designed customizable initial configurations and a feature for saving/loading patterns.

## WORK EXPERIENCE

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### Founder

January 2025 - Present

#### *Simulint Innovations*

- Design, build, and deploy business websites using WiX, Shopify, WordPress, and Squarespace, integrating custom styling, e-commerce, and SEO optimization.
- Develop custom website functionality using Velo (WiX Code), Liquid (Shopify), and JavaScript, enhancing user experience and automating repetitive tasks.
- Optimized site performance and security, ensuring fast load times, efficient database queries, and seamless CMS integration.

### Web Developer

June 2021 - Present

#### *Freelance*

- Develop custom front-end interfaces for businesses using HTML, CSS, JavaScript, and React, optimizing user engagement and performance.

- Integrate CMS platforms (WiX, Shopify, WordPress, Squarespace), customizing themes and adding JavaScript-based interactive elements.
- Build and refactor reusable React components to enhance maintainability and scalability across projects.
- Optimize website performance and accessibility, ensuring SEO best practices, mobile responsiveness, and automated workflows.

### **Director of Marketing & IT**

July 2021 - January 2024

*Hacienda Mobile Home Sales*

- Redesigned and modernized company website using HTML, CSS, JavaScript, and Velo for improved performance, SEO, and user engagement.
- Constructed and integrated REST APIs in PHP & JavaScript, automating inventory updates and reducing manual input by 60%.
- Created and implemented a macro-driven Excel (VBA) system for automated data processing.

## **EDUCATION**

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### **Associate of Science in Computer Science (A.S.)**

June 2025

*Full Sail University, Online*

- **Concentration:** Software Engineering
- **Projects:** Conway's Game of Life (C++), Scientific Calculator (C++)
- **Relevant Course Work:** Programming I, Programming II, Systems Programming, Data Structures & Algorithms, Software Engineering, Applied Human-Computer Interaction
- **GPA:** 4.0

### **Bachelor of Science in Computer Science (B.S.)**

July 2026

*Full Sail University, Online*

- **Concentration:** Artificial Intelligence

## **LEADERSHIP**

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### **National Society of Collegiate Scholars (NSCS)**

October 2024 - Present

- The National Society of Collegiate Scholars (NSCS) is an interdisciplinary undergraduate honor society that recognizes primarily first and second year students for doing well academically early in college.
- **Credential ID:** e15591f1-0e96-4dd7-acab939dead371ba