

ZACHARY BRAY

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EDUCATION

University of Central Florida, Orlando, FL

May 2022

B.A. in Digital Media | Computer Science Minor | GPA: 3.81 / 4.0

WORK EXPERIENCE

National Space Society

Dec 2024 - Present

Freelance Frontend Developer

Orlando, FL

- Developed a fast, scalable website for a worldwide contest celebrating the 100th anniversary of Robert Goddard, reaching an estimated 5000+ participants.
- Designed an intuitive, visually striking UI using ReactJS, Tailwind CSS, and ShadCn, improving user engagement by 30% through enhanced navigation and responsiveness.
- Coordinated directly with key members of the National Space Society to gather contest requirements, ensuring the website effectively supported their vision and goals.

LEADERSHIP EXPERIENCE

UCF Game Production Project

Aug 2021 – Dec 2021

Lead Programmer

- Led a team of 3 programmers in developing a Unity-based game, coordinating with a team of 6 designers and artists, resulting in a fully playable prototype within a 4-month production cycle.
- Designed and implemented gravity-based player mechanics, refining movement physics and collision detection, while acting as the primary liaison between programming, design, and art teams to ensure seamless integration.

PROJECTS

Personal Portfolio AI Assistant | [Website](#) | [Source Code](#)

ReactJS | Typescript | Go

- Integrated a RAG (Retrieval Augmented Generation) AI assistant using the OpenAI Assistants API on my portfolio website, achieving 95% accuracy in answering frequently asked questions based on pre-defined data.
- Handled an average of 50+ user interactions per week, providing instant and accurate responses to inquiries about my projects and skills.

Anime Watchlist and Tracking Platform | [Website](#) | [Source Code](#)

ReactJS | Typescript | Go | PostgreSQL

- Developed MyAnimeVault, a full-stack anime browsing and tracking platform supporting 10,000+ anime titles, offering users a modern UI and real-time data tracking.
- Increased navigation efficiency by 30% compared to MyAnimeList through modernized UI/UX design and intuitive navigation and search features.

Project Management Web App | [Website](#) | [Source Code](#)

ReactJS | Typescript | .Net | SQL Server

- Created AgilePro, a full-stack project management tool used by remote teams to collaborate on projects in real time.
- Implemented real time data synchronization for chat feature using SignalR and Web Sockets.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Go, C#, HTML5, CSS, SQL

Developer Tools: Azure, Postman, Vite, Jira, Render, Vercel, Unity, Unreal Engine

Libraries/Frameworks: ReactJS, Tailwind CSS, Chakra UI, MobX, GORM, .Net, Entity Framework, PostgreSQL

CERTIFICATIONS

[Complete guide to building an app with .Net Core and React](#) – Udemy, 2024

[Go - The complete guide](#) – Udemy, 2024