Jacob Butfiloski

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EDUCATION

University of South Florida   Tampa, FL
Bachelor of Science in Information Science, Concentration in Web Development Technologies   *Aug. 2023 – May 2025*

Polk State College   Lakeland, FL
Associate's in Liberal Arts   *Aug. 2020 – May 2023*

EXPERIENCE

Frontend Web Developer   December 2022 – Present
YMCA of West Central Florida   *Lakeland, FL*

- Sole frontend engineer partnering with marketing and program directors to maintain accurate, up-to-date site content, increasing user engagement and streamlining digital user registration
- Engineered an automated web-scraping pipeline on Amazon AWS EC2 to aggregate Indeed job listings and publish them to WordPress
- Co-led full redesign and migration plan from a proprietary Ready CMS website to WordPress, developing custom Angular components, CSS layouts, and JavaScript modules to modernize UI/UX
- Applied Agile development methodologies, managing tasks and sprints through Trello to ensure timely delivery of frontend content and features

Programming Instructor   Sep. 2024 – Present
CodeFu Tampa   *Tampa, FL*

- Designed and delivered hands-on coding classes in Scratch, Scratch Jr., and Python for K–8 learners, introducing core programming concepts and cultivating problem-solving skills
- Created and maintained modular curriculum through lesson plans, coding challenges, and assessments across 5+ classes
- Developed Python scripts and interactive demos for classroom exercises and to visualize code behavior, allowing for hands-on learning and debugging practice

PROJECTS

Nintendo Title Reverse Engineering | *ARM, C, C#, C++, TCP, Ghidra*   April 2021 – Present
- ∗ Contributed to open-source decompilation projects for multiple Nintendo titles and proprietary libraries
- ∗ Utilized Ghidra to reverse engineer and document function symbols extracted from Nintendo console executables
- ∗ Developed custom injectable code for Nintendo Switch executable files, allowing for modified code execution on real hardware
- ∗ Built and open-sourced tools for live console memory editing and debugging through TCP, supporting real-time analysis and modification

Relay | *React-Native, TypeScript, JavaScript, Node.JS, (SQL) Postgres*   March 2025 – Present
- ∗ Developed a full-stack cross-platform application using Supabase serving a REST API with React-Native as the frontend
- ∗ Implemented a server-side bridge to translate TCP-based IRC data to WebSocket for browser compatibility
- ∗ Integrated Supabase for secure authentication and data storage to serve social media functions

Subathon Timer | *Electron.JS, JavaScript, HTML, CSS, APIs*   December 2024 – February 2025
- ∗ Contracted to develop a dynamic countdown timer that dynamically extended based on donations received through Twitch and YouTube
- ∗ Engineered cross-platform API communication between YouTube and Twitch, ensuring 24/7 uptime through hotfix-based deployment
- ∗ Collaborated closely with the client to deliver a reliable solution that aligned with the functional and behavioral requirements

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL (Postgres), JavaScript, TypeScript, HTML/CSS
Frameworks: React, React-Native, Angular, ElectronJS, ASP.NET, Node.js, WordPress, OpenGL
Developer Tools: Git, Docker, Amazon AWS, Jenkins, Linux, Ghidra, TCP, Supabase, MongoDB, Unity