JOSEPH BARR

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SUMMARY

Software engineer and Computer Engineering graduate with experience supporting production government systems, debugging live application issues, and building custom internal tools. Skilled in C#, TypeScript, JavaScript, Python, SQL, and translating client needs into reliable software solutions.

EDUCATION

University of Central Florida (UCF) - B.S. Computer Engineering
Graduated: May 2023 | Orlando, FL

PROFESSIONAL EXPERIENCE

Fast Enterprises, LLC - Implementation Consultant
Multiple Client Sites | Jul 2023 - Present

- Develop site-specific solutions for a commercial off-the-shelf government software product using C#, PostgreSQL, SQL Server, and VB.NET.
- Built customer-facing web portal features on the eServices team, supporting online user workflows and client-specific business requirements.
- Designed and implemented RESTful API integrations on the Interfaces team to support data exchange between product modules and external systems.
- Currently building a site-specific revenue accounting system for the Financials team, iterating on design based on client feedback and product constraints.
- Develop SQL reports, queries, and data-driven outputs to support client operations, financial analysis, reconciliation, and decision-making.

Previous experience: Software Implementation Intern, Fast Enterprises - Summer 2022

Atlantis Educational Services, Inc. - Lead Software Engineer
Kennedy Space Center, FL | Mar 2022 - Jan 2023

- Designed, developed, and deployed internal software for robotics and aerospace educational programs used in STEM learning environments.
- Built reliable software and equipment-support systems to help execute global STEM camps and technical workshops.

University of Central Florida - Undergraduate Teaching Assistant
Orlando, FL | Aug 2021 - May 2023

- Taught 100+ students engineering fundamentals, including Arduino, circuits, programming concepts, and design processes.
- Created lesson materials, guided troubleshooting, and helped students develop practical problem-solving skills.

PROJECTS & LEADERSHIP

KnightDash Autonomous Delivery Drone - Project Lead
Aug 2020 - Aug 2023

- Led an autonomous campus delivery drone project across software, hardware, controls, and integration teams, earning 1st place at the UCF Engineering Week Project Showcase.

American Institute of Aeronautics and Astronautics, UCF - President
Apr 2022 - May 2023

- Directed activities for 250+ members across 10+ engineering projects, technical events, and professional development initiatives across aerospace, robotics, and computer science disciplines.

TECHNICAL SKILLS

Programming Languages: C#, TypeScript, JavaScript, Python, C++, C, Java, Lua, VB.NET
Backend & Databases: Node.js, REST APIs, PostgreSQL, SQL Server, Prisma, Next.js
Tools & Other: Git, Agile, debugging, production support, technical documentation, embedded systems, robotics