

## Brentyn Hanna

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Full Stack developer with 5 years of combined experience. Primarily focusing on .NET desktop application development for the last 2 years but optimistically open towards almost any design choice(s). Excels at designing, documenting, or deconstructing systems. Unabashed, empathetic, motivated by opportunities to learn, and an independent yet team-oriented problem solver.

### Professional Experience

#### **Arcata Associates**

Software Engineer II | December 2023 – August 2025

- Completed upgrade on a set of unclassified early warning radar systems overhauling embedded software suite from C / C++ software on legacy hardware to modern .NET and vendor software libraries using standard desktop hardware including COTS PCIe products. Added several needed safety systems including redundant RF dummy load and safety checks. Implemented ArcGIS air picture to allow operators to visualize aircraft interaction utilizing TCP/IP multicast protocol with existing data broadcasts.
- Investigated and resolved a contracted vendor regarding issues with hardware implementation of custom FPGA hardware interfacing PLCs for a classified advanced radar system on the NTTR.
- Replaced legacy Access database security badge system for the Nellis Air Force base with secure MSSQL database application. Planned database migration, acted as liaison between military and internal business, handled licensing, and overcame several technical and cybersecurity hurdles to successful project completion.

Software Engineer I | February 2023 – December 2023

- Solicited internal Data Management team for requirements for a tool to speed-up document editing. Designed a Microsoft Word addon natively in C# utilizing .NET technology. Delivered inhouse tool with company branding that seamlessly fit in already established toolset and reduced document linting tedium, ensured accuracy programmatically, and essentially instantly completed a painstaking process that would take reviewers sometimes hours for larger documents.
- Volunteered to help migrate internal company repositories from private Gitlab to Github servers, writing documentation for other engineers, and presenting a how-to during team meetings for the engineers inexperienced with Git technology.

#### **Bigital**

Owner, Developer, I.T. Support, Database Manager | October 2018 – Present

- Design, develop, and maintain diverse tech stacks for clients based on unique needs often utilizing robust Open Source software combined with secure B2B SaaS products.
- Provide end-to-end hosting for websites and applications as chief IT point of contact for both nontechnical and technology-based customers.
- Customized unique software & hardware solutions from delegating requirements to full comprehensive testing & delivery for a variety of needs.

### Other Experiences

**Active United States T/S Federal Clearance | 2024**

**DEFCON 33 | Las Vegas 2025**

*Won the 5N4CKY CTF Challenge, personally contributing to solving four flags for my team, which resulted in all 9 of us earning a coveted badge and scoring in the top 200 on the leaderboard of thousands of contestants who participated.*

**CompTIA Security+ Certification | 2023**

**E.P.I.C.S. | Arizona State University, 2016 – 2017**

*Designed customized hardware utilizing microcontrollers and sensors to measure water usage on campus. Consulted by Streetlight USA to explore building design options and create integrated systems for a local Phoenix institute that help protect the identities of victims from sex trafficking and marital abuse.*

### Technical Skills

C#, .NET, Vue.js, Nuxt, CSS, HTML, WHM, cPanel, JavaScript, PHP, Go, C++, Java, Ruby, Blazor, React.js, NodeJS, Firebase, Netlify, MongoDB, SQL, MySQL, MSSQL, Figma, Photoshop, Wordpress, Elementor, BASH, Powershell, PuTTY, LinuxOS, UbuntuOS, KaliOS, Arduino, RaspberryPi, PLC, git, Github, Gitlab, YAML, JSON, INI, XML, SNMP, hypervisor(s), Docker, CheatEngine, CAD, MatLAB, Autodesk360, tin soldering, 3D Printing, BenchVue, ArcGIS, modern networking, radio, RFID, NFC, radar principals