Milan Donhowe

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Profile

Caffeine addicted software engineering professional who enjoys making flow charts a little too much. I have a bit of a background in cybersecurity with my hobbyist involvement in CTFs (hacking competitions) and a professional background as a sort of software 'guru' in an industrial manufacturing context. I am comfortable programming in modern imperative programming languages from dynamically typed interpreted languages like JavaScript and Python, to statically typed, compiled languages like Go and C.

Technologies

- **Languages**: Go, Rust, Python, JavaScript, SQL (T-SQL), C, C++.
- **Databases**: SQLite, Microsoft SQL Server, PostgreSQL.
- **Tools**: TIA Portal, Simantic Manager, GDB, Docker, Git, make.
- **Systems & OSS**: Ignition, Litmus Edge, Azure DevOps, Grafana, Node-Red.

Experience

Automation Engineer, Niagara Bottling – Diamond Bar, CA June 2022 – Present

- Designed, developed, and deployed bespoke in-house software solutions to automate procedural operator tasks (HMI interactions) and enable automatic product quality checks.
- Scaled out data acquisition projects across different platforms (Ignition and Litmus Edge), automating common tasks via Python scripts, and building out ad-hoc data pipeline logic where needed.
- Lead efforts to train off-shore IT support teams to provide 24/7 support for our company's Ignition based projects.
- Provided emergency troubleshooting support and "hot fixes" relating to issues with legacy software systems (MES Software, PLC programs, etc.) at manufacturing plants.
- Compiled documentation for existing software solutions supported by the team.

Student Software Developer, OSU Sustainability Office – Corvallis, OR March 2021 – March 2023

- Maintained the University's serverless Single-Page-Application (SPA) energy dashboard.
- Developed from the ground-up an infographic web-map (the "sustainability map") to highlight especially sustainable infrastructure features of the University (EV Chargers, Bioswales, Permeable Pavement, etc.).
- Created automated web-scrapers to collect and store energy data from otherwise opaque web data portals.

Education

Oregon State University, BS in Applied Computer Science Sept 2019 – June 2023

- Graduated Summa Cum Laude

Volunteering

CTF Organizer

- Contribute challenges annually to both BSidesPDX CTF and DAMCTF in pwn/rev/web categories.

References

- Happily provided on request.