DAVID J VITALE

davidjosephvitale@gmail.com | 847-987-9299 | 🔗 https://davidjvitale.com/portfolio

SUMMARY

Quick-adapting Software Engineer with 5+ years of experience—passionate about disciplined development practices, automation, and lifelong learning of new technology

Languages: Python, C#, JavaScript, TypeScript, HTML/CSS, Java, C

Skills/Technologies: Web Development, Rest APIs, CICD, AWS, Linux, React.js

INDUSTRY EXPERIENCE

Software Development Engineer | Esri | Redlands, CA   (Sept 2017 – Present)
- Collaborated on the development of the ArcGIS API for Python, a platform that leverages the ArcGIS REST API to allow users to work with maps and geospatial data
- Architected and implemented a Python/JavaScript widget that allows users to visualize spatial data on an interactive map in Jupyter Notebooks
- Built a Continuous Integration/Continuous Delivery (CICD) system that increased QA standards and standardized release processes for internal and external stakeholders

Software Developer | GasDay | Milwaukee, WI   (May 2014 – May 2017)
- Applied Agile methodologies to the development of an Azure-deployed ASP.NET C#/F# web application that forecasts energy companies' projected consumption of natural gas
- Managed sprint tasks using test-driven development to compose maintainable, continuously integrated code that passed rigorous code reviews

Assoc. Embedded Engineer | Extreme Engineering | Middleton, WI   (May 2015 – Dec 2015)
- Debugged the Linux kernel on single board computers, ultimately creating a kernel patch that eliminates the race condition caused by a faulty serial driver
- Managed a CICD system that tests UEFI firmware images on various embedded computers

SOFTWARE PROJECTS

Bears on ATVs Video Game | Luddite Games | 🔗 https://ludditegames.com/bears-on-atvs/
- Conceived of and created a 2D side-scroller about a rogue bear that learns to drive an ATV
- Architectured a massive hierarchical OO C# codebase that conducts physics, manages state in a NoSQL database, and controls game flow with patterns like finite-state machines

Jekyll-Leaflet | 🔗 https://davidjvitale.com/tech/jekyll-leaflet/
- Created a Ruby/JavaScript Jekyll plugin that generates Leaflet.js maps for static websites

EDUCATION

Bachelor of Science in Biomedical Engineering (Biocomputing) | Marquette University
- **Coursework:** Data Structures, Operating Systems, Hardware, Embedded Systems

LEADERSHIP AND VOLUNTEERING

- **Eagle Scout** | Boy Scouts of America
- **Computer Science Classroom Outreach** | Marquette University