BRENDAN K. OCONNELL

Software Engineer

CONTACT INFO

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○ bkoconnell.github.io

EDUCATION

B.S. Computer Science

Southern New Hampshire University

2018 - 2021

SKILLS

Platforms

Linux
Windows
Docker / Kubernetes
AWS Cloud

Programming / Languages

Python (excellent)
SQL (proficient)
Go (familiar)
Bash (familiar)
JavaScript/TypeScript (familiar)
HTML/CSS (familiar)

Tools / Frameworks

Git, JIRA, GitLab CI/CD, PyTest,
VS Code, Ansible, MongoDB,
Node.JS, Express.JS, Angular,
React, Django, Flask, FastAPI,
MySQL, PostgreSQL, Anaconda

Security Clearance: SECRET

SUMMARY

Ambitious software engineer with a passion for Python programming. Highly regarded as a self-motivated team player with exceptional attention to detail and assertive communication skills.

PROFESSIONAL EXPERIENCE

Software Engineer II

BAE Systems ❖ Nov 2021 – Present

- Designed, developed, and documented object oriented Python programs as solutions to customer requirements, including tools that parse input and use libraries like NumPy to format data fields and store as component objects.
- Utilized Python's struct library, bit fields, and the bytes dunder method to serialize bundled components, then wrote output to binary files for embedded software systems to use. Also customized the string dunder method to stringify bundles into an XML format for human-readable output.
- Member of DevOps team employing agile methodologies with JIRA for projects, sprint planning, scrum meetings, and issue management.
- Configure Dockerfiles for containerization, as well as GitLab YAML files to orchestrate the CI/CD automation pipeline with jobs to lint, build, test (static/dynamic/Cucumber), package, and deliver to Artifactory repos.
- Implement resolutions for user stories inside containers on Linux machines, and collaborate with peers for code reviews and merge requests in GitLab.
- Deploy deliverables on a RHEL server using Kubernetes, Helm Charts, and Ansible playbooks for configuration, automation, and testing.

SUPPLEMENTARY EXPERIENCE

- Educated in CRUD operations, client/server development, the MEAN stack, web architectures, REST APIs, SPAs, RDBMS, non-relational databases, and AWS cloud development using S3, Lambda, and DynamoDB.
- Experience with frontend & backend web development using SQL & NoSQL databases, Python virtual environments & frameworks like Django, Flask, & FastAPI, as well as JavaScript using Node.JS, Express.JS, Angular, and React.
- Confident employing innovative algorithms and utilizing data structures to design & develop logical software solutions using Python and OOP concepts.