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

Windows
Linux
Docker
AWS Cloud

Programming Languages

Python 3 (proficient)
C++ (familiar)
JavaScript (familiar)
SQL (familiar)
NoSQL (familiar)

Tools / Frameworks

Visual Studio, VS Code,
Anaconda, Git, GitLab, JIRA,
Node.JS, Express.JS, Angular.JS,
MongoDB, Mongoose ODM,
OpenGL, JUnit, DynamoDB,
AWS Lambda & API Gateway

Security Clearance: SECRET

SUMMARY

Ambitious computer science graduate with a passion for software development. Highly regarded as a self-motivated team player with exceptional attention to detail and assertive communication skills.

PROFESSIONAL EXPERIENCE

Software Engineer I

BAE Systems   ❖ Nov 2021 – Present

- Designed, coded, and documented object oriented Python programs as solutions to specific requirements, such as a parsing tool that reads input files, formats the content, and stores it in data tables for easy retrieval.
- Developed a tool that builds a "bundle" comprised of numerous component sections. The bundler tool stores data tables as individual components in a bundle, enabling other software modules to quickly access the contents. This mitigates the burden of data being scattered across many files.
- Utilized Python's struct library, bit fields, and the bytes dunder method to serialize bundles in the bundler tool which are then written as 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.
- Worked on DevSecOps team employing agile methodologies with JIRA for projects, sprint planning, scrum meetings, backlog, and issue management while working seamlessly with GitLab for code repositories, version control, and the DevSecOps pipeline of automated testing, security, and QA.
- Implemented resolutions for user stories inside Docker containers and collaborated with peers for code reviews and merge requests in GitLab for continuous improvement and continuous delivery to customer.

SUPPLEMENTARY EXPERIENCE

- Educated in CRUD operations, SQL & NoSQL databases, client/server development, MEAN full-stack, MVC architecture, RESTful APIs, SPAs, and AWS cloud development.
- Comfortable employing innovative algorithms and common data structures to develop logical software solutions using Python 3 and OOP concepts.