

# Brendan OConnell

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## SUMMARY

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Ambitious software developer and data scientist with a passion for Python, automation, and learning new skills. Highly regarded as self-motivated and team-oriented with exceptional attention to detail and assertive communication skills. Extensive problem-solving experience providing innovative solutions in fast paced environments, with a strong aptitude for prioritizing tasks and understanding contractual requirements.

## TECHNICAL SKILLS / PROGRAMMING LANGUAGES

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**Excellent:** Python, Git, JIRA, Confluence, Agile methodologies, PyTest

**Proficient:** SQL, MySQL, FastAPI, SQLAlchemy, Pandas, Linux, Windows, GitLab, Ansible, Docker, Kubernetes

**Familiar:** JavaScript, NodeJS, C/C++, R, Bash, MongoDB, PySpark, Helm, Jenkins, AWS

## PROFESSIONAL EXPERIENCE

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### Software Engineer II

Nov 2021 - Jan 2024

BAE Systems, *Lexington, MA*

**Clearance:** Secret (DoD)

- Software and DevOps engineer, employing a mix of methodologies like agile, kanban, and scrum. Daily duties include container orchestration with Kubernetes on Linux servers to verify, validate, and monitor the performance and behavior of deliverables, as well as creating Helm charts, templates, and Ansible playbooks to automate configurations and deployments.
- Trusted with writing Python modules and shell scripts for automation pipelines and tests, reducing overhead costs by automating manual tasks and cutting cycle time down from days to seconds.
- Generate Dockerfiles to containerize apps as part of a microservice architecture, with a focus on image size optimization. This includes using volumes to separate data from the image, utilizing the Dive tool to minimize layers, and using multistage builds.
- Design, develop, and document objected-oriented programs that parse input (CSV, XML, JSON, Excel), format data fields, store data as component objects, and concatenate components together to create a single bundle. Make use of various Python resources like the struct library, ctypes bitfields, NumPy, and the bytes dunder method to customize serialization of bundled component objects, which are then written to binary output files for embedded software systems to read.
- Utilize GitLab to maintain code repositories, implement CI/CD pipelines, and conduct peer code reviews.

## EDUCATION

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**Merrimack College**, North Andover, MA

*Master of Science*

Data Science

Jan 2024 - May 2025

GPA: 4.0

**Southern New Hampshire University**

*Bachelor of Science*

Computer Science

Jan 2018 - Apr 2021