

Carlton Haas
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DATA ENGINEER | DATABRICKS | SQL | PYTHON | CI/CD

Active Treasury Public Trust Clearance

PROFESSIONAL SUMMARY

Software Engineer and Data Engineer with 12+ years of experience developing, modernizing, automating, and supporting enterprise applications and data-processing solutions. Strong experience with Python, SQL, Databricks, distributed data processing, backend automation, CI/CD, application modernization, and secure software development.

Experienced with AI-assisted software development using Claude Code and with PyTorch for basic machine learning model development, analysis, and evaluation. Familiar with LLM, RAG, embedding, vector database, and semantic search concepts, with a strong foundation in Python-based software engineering and data processing.

Experienced working in federal contracting environments and supporting enterprise modernization initiatives, production systems, security requirements, technical documentation, and cross-functional software delivery.

TECHNICAL SKILLS

AI Assisted Development:

Claude Code, PyTorch, AI-Assisted Software Development, Machine Learning Model Analysis & Evaluation

Data Engineering & Analytics:

Databricks, Databricks Change Data Feed (CDF), SQL, Data Transformation, Incremental Data Processing, Distributed Data Processing

Programming:

Python, SQL, Java, C++, C, Perl, PHP, JavaScript

DevOps & Automation:

CI/CD, Jenkins, Git, Bitbucket, IBM EWM, Unix Shell Scripting, InstallShield

Web Development:

PHP, REST APIs, AngularJS, JavaScript, jQuery, HTML, CSS, AJAX, Bootstrap, Sencha Ext JS, WordPress, FPDF

Databases:

Oracle, SQL Server, MySQL

Tools & Applications:

JIRA, Visual Studio 2022, VMware Workstation, AppScan, Microsoft Office 365

PROFESSIONAL EXPERIENCE

Booz Allen Hamilton

September 2017 – August 31, 2026

Software Engineer

- Migrated and optimized legacy Oracle SQL statements into Python-based Databricks notebooks using set-based operations, enabling large-scale distributed data processing within the EDP platform.
- Utilized Databricks CDF to track incremental data changes performed in Palantir front-end workflows and Databricks back-end, optimizing writeback operations and improving operational efficiency.
- Developed high-visibility backend automation that reduced manual processing workload for approximately 200 employees.
- Applied AI-assisted programming (AIP) tools to generate initial code templates and reduce development time.
- Led Configuration Management efforts while team members were unavailable, helping keep project software deliveries on schedule.
- Migrated source code and development tools from Windows 7 32-bit to Windows 11 64-bit, supporting modernization of the development environment.
- Migrated the manual build process to a Jenkins CI/CD pipeline, automating software delivery and improving build consistency.
- Scanned and reviewed source code using AppScan to identify software vulnerabilities and provide findings to the cybersecurity department.
- Designed Unix shell scripts to load and process data files and automatically generate email reports for stakeholders after processing.

Physician Management Group

June 2014 – September 2017

Systems Analyst

- Eliminated 8,000 lines of duplicated code in a production web application by developing reusable PHP functions, improving maintainability and code consistency.
- Enhanced and maintained custom PHP web applications supporting approximately 400 production users, integrating with vendor software systems.
- Designed and implemented an internal PHP library to reduce redundant SQL queries and centralize reusable application functionality.
- Validated production database data using T-SQL queries and modified stored procedures to resolve issues and implement new functionality.
- Added electronic-record functionality to internal web applications to support electronic records initiatives and reduce paper-based processes.
- Implemented AngularJS, jQuery, and AJAX functionality to improve web application usability and performance.

EDUCATION

Hood College
Master of Science in Information Technology

Frederick, MD

DeVry University
Bachelor of Science in Computer Information Systems

Columbus, OH