

Benjamin Holt Murray

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Professional Summary

Senior Software Engineer with 20+ years of experience designing, developing, and leading software projects across aerospace, defense, and cloud industries. Skilled at engaging stakeholders, understanding their needs, and incorporating their feedback to deliver solutions that create a sense of ownership. Active U.S. Secret clearance.

Technical Skills

Programming: Python, JavaScript, C, C++, C#, Java, Fortran, PHP, Ruby

Frameworks & Tools: Flask, FastAPI, Qt, NumPy, Pandas, ASP.NET MVC, Ruby on Rails, Xamarin, SharePoint, Microservices (JBoss Fuse)

Cloud & DevOps: AWS (Formerly Solutions Architect & Developer Certified), Docker, CI/CD, Ansible

Databases: MySQL, MariaDB, SQL Server, Oracle, SQLite

Other: OpenGL, Machine Learning (Classification, Visualization and Modeling)

Professional Experience

Canvas – Arnold AFB, TN

Senior Software Engineer | Apr 2018 – Present

- Architected and led development of TMPROC, a Python/NumPy/Pandas system that automated telemetry data cleaning and reduced analyst processing time.
- Designed and developed Dots, a Python-Qt/OpenGL application for target registration, improving test article setup accuracy.
- Led development of FLIP, a Fortran + Python-Qt solution for telemetry interpolation, enabling analysts to visualize load predictions in real time.
- Created Excel-based automation tools for test engineers, reducing manual reporting effort.

8th Day Software – Cordova, TN

Software Engineer III | Aug 2016 – Apr 2018

- Built predictive ML models in AWS, enabling data-driven insights for clients.
- Developed cross-platform mobile apps using Xamarin Forms integrated with REST APIs.
- Created ASP.NET MVC pharmacy dispensing portals and a Ruby on Rails health-tracking web application.
- Designed microservices using Java and Red Hat JBoss Fuse for enterprise applications.

Aerospace Testing Alliance – Arnold AFB, TN

Software Engineer / System Administrator | Jan 2007 – Aug 2016

- Founding developer of RealTDS, a real-time telemetry display system relaying thousands of parameters with less 250 ms latency using Python, Tornado, and MarionetteJS.
- Co-developed ARGUS, a requirements-tracking platform for turbine engine testing across multiple facilities use Flask and BackboneJS.
- Maintained and enhanced TVIS (C++/Qt/OpenGL), modeling store separation from aircraft.
- Created GUI for Thermodynamics API (Fortran backend, QML frontend).
- Built and maintained multiple web solutions using PHP, Ruby, and JavaScript; administered Apache, MySQL, and PKI certificates.
- Supported enterprise SharePoint systems and cross-platform servers (Windows, Solaris, RHEL).

Lee County Board of Education – Opelika, AL

Computer/Network Technician – Inventory Manager | Jul 2003 – Dec 2006

- Designed and developed inventory management system
- Implemented and maintained online work request ticket system
- Diagnosed and repaired hardware/software issues across school systems.
- Installed and upgraded computer systems and connected them to fiber optic network.
- Trained teachers on Microsoft Office and internet applications.

Education

Georgia Institute of Technology – Atlanta, GA
M.S., Computer Science | 2023

University of Tennessee – Chattanooga, TN
B.S., Computer Science | 2003

Certifications

Security+	June 2007 - (COMP00100618851)
AWS Certified Solutions Architect	May 2017 – May 2019 - (AWS-ADEV-11731)
AWS Certified Developer	May 2017 – May 2019 - (AWS-ASA-37642)
Certified, Certified Scrum Master	November 2012 – November 2014 (000223084)

Additional Information

U.S. Citizen | Active Secret Security Clearance