# JAMES MICHAEL BALLOW

Passionate AWS Solutions Architect, problem-solver, and programmer.
Professional philosophy: "Great work requires risk, prayer, and perseverance".
Personal philosophy: "Challenge Accepted!"

CONTACT (*LINKS)

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- 🏠 Professional Profile*
- 🏠 Udemy Instructor Page*
- 🔗 JamesMichaelBallowProjects*
- in james-michael-ballow*
- iD 0000-0003-0548-9901*
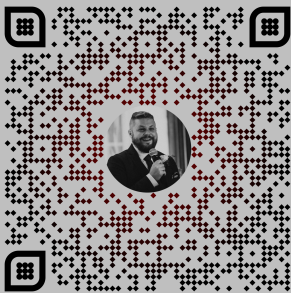
PROFICIENCIES

Languages

Python	●●●●●
Git	●●●●●
APIs	●●●●●
HTML/CSS/JS/Bootstrap	●●●●○
PostgreSQL/SQL/Flux	●●●●○
shell/bash/csh	●●●●○
Markdown	●●●●○
MATLAB	●●●●○
React	●●●○○
TypeScript	●●●○○
C/C++	●●●○○
LaTeX	●●○○○

Tooling/Environments

AWS	●●●●●
AirTable	●●●●●
JIRA/Confluence	●●●●●
Lucid	●●●●●
PostgreSQL/SQL	●●●●○
Postman	●●●●○
Docker	●●●○○

Methods

Data ETL	●●●●●
Computer Vision	●●●●●
Cybersecurity	●●●●○
Time Series Analysis	●●●●○
Machine Learning	●●●○○
UI/UX	●●●○○

⚙ WORK HISTORY

📅 Aug 2024 - Present
⚙ Computer Enterprises Inc. (CEI)
📍 Tampa, FL

AWS Solutions Architect

Work as a SysOps Admin for one of CEI's AWS Tenants; working with clients to understand their problems, develop definitions for where they need help, propose solutions, and design/develop those solutions in AWS cloud.

📅 May 2023 - Aug 2024
⚙ Abacode Inc.
📍 Tampa, FL

Lead AWS Solutions Architect

Designed/developed third-party risk monitoring for Abacode. Overcame many challenges with standing up a new product which required skillful collaboration with many full-stack, back-end, and front-end developers across multiple time zones. Clearly documented work, trained others in third-party risk monitoring, and trained colleagues in AWS.

📅 Mar 2022 - Mar 2023
⚙ Axiom Cloud Inc.
📍 San Francisco, CA

Software/Product Engineer

Engineered company's first solution for machine-learning-based refrigeration leak detection *en-masse*, increasing the company's reporting and diagnostic throughput 100-fold. Engineered a solution to mass produce thousands of data traces in Amazon Managed Grafana Dashboards with a single python script and a unique template schema/method.

📅 May 2018 to Dec 2021
⚙ Fluor Marine Propulsion (DOE)
📍 Schenectady, NY

Senior Software Developer

Designed, developed, documented and deployed a multi-site, multi-platform, multi-language job automation/husbandry software for nuclear analysis. Coordinated with engineering PhDs and scientists to solve nuclear-related mathematical problems. Instructed a team of eight engineers how to use LINUX, MATLAB, python, csh/bash.

† Several letters of recommendation available upon request.

🎓 EDUCATION

🎓 **Clarkson University**
📅 May 2022
★ 4.0 GPA

M.S. in Computer Science

🎓 **Naval Nuclear Power Training Command**
📅 April 2016
★ With Distinction (Top 10%)

Certification in Nuclear Power

🎓 **Florida State University**
📅 May 2015
★ 3.8 GPA

B.S. in Chemical Engineering

⬡ EXPERIENCE

Donut chart segments: Data Visualization, Back-End, Front-End, Reporting & Tooling, Troubleshooting, Teaching, AWS
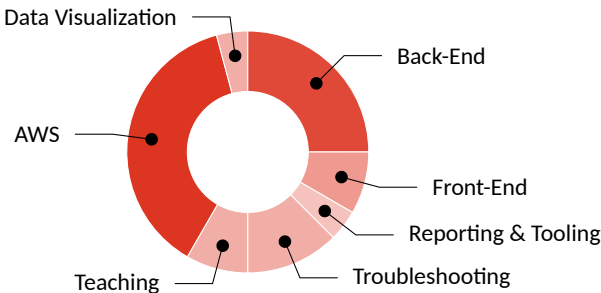
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Free time is always a good time to learn a new skill or to achieve something great. There is much to learn from obtaining a skill - like how to handle failure should it arise during your endeavours. I like to think of my failures as rapid learning events.

🏆 ACHIEVEMENTS AND AWARDS

🏆 Monetary Bonus (Abacode)
📅 2023

Contributions to Abacode Scout

Commitment to excellence and outstanding contributions that significantly impacted Abacode's Digital Innovation, and leading to the overall successful creation of Abacode Scout.

🏆 Monetary Bonus (Axiom Cloud)
📅 2023

Contributions to Productivity

Created, deployed, and trained on a machine learning and reporting software used for detecting refrigeration anomalies across countries, increasing company diagnostic/reporting 100-fold.

🏆 Achievement
📅 2023

Udemy Course Creation

Created a computer-science-related course on Udemy that aims to help students get their foothold in the world of computer science. It has sustained a continued student body growth.

🏆 Trophies (Axiom Cloud)
📅 2022

Axiom Cloud Axi Award

Voted "Best Person to Brighten Your Day" and "Most Willing to Offer Help to Someone" by company employee body, and nominated for three other awards of the like.

🏆 Achievement
📅 2022

International Publication

Furthered the field of Computer Vision by publishing a paper for International Conference of Image Analysis/Processing with two new algorithms for detecting hands in monochromatic images.

🏆 Monetary Bonus (FMP)
📅 2019

Corporate Software License Merger

Coordinated and planned a license merger across two laboratories to minimize cost of MATLAB software and make it more available; a project I passionately handled beginning to end.

🏆 Monetary Bonus (FMP)
📅 2018

Government Process Improvement

Improving the financially- and temporally-expensive government process of Naval Manual revisions by coordination with, and strategic persuasion of, high-ranking government personnel.

✪ HIGHLIGHTED ONE-OF-A-KIND PROJECTS

✪ **Abacode Scout - *Cybersecurity***
React serverless web application hosted/served with AWS, using resources like PostgreSQL, CloudFront, and API Gateway, all using CDK. Scout helps customers observe their entire cyber-sphere to understand their risks, vulnerabilities, and stability.

✪ **Accio Reports - *Report Generation***
Customer report generation tool created using Airtable for storage, Python for logic, and Microsoft Visual Basic for DOM generation.

✪ **Sherlock - *Automated Refrigeration Anomaly Detection***
A behavioral time-series machine learning model with Python for logic and Airtable for storage. It identifies/reports on abnormal refrigeration behaviors for 100s of thousands of data traces/hr.

✪ **Kaboom - *AWS AMG Dashboard Generator***
Generates Amazon Managed Grafana (AMG) dashboards for customers with high fidelity. It uses Python for logic and AMG for display and templating. The templating schema/method is itself also one-of-a-kind.

✪ **Navy Styles - *Government Document Style Guide Corrector***
Automatically corrects U.S. Government documents for the Department of Energy, modifying them to be in compliance with a Naval Nuclear Power Writing and Style Guide. It uses Microsoft Visual Basic for DOM alteration and MATLAB for logic.

CERTIFICATES

Completed

AWS Solutions Architect [Associate]
AWS Security Specialty
AWS Advanced Networking Specialty
Python Programmer [Associate]
JavaScript Programmer [Entry-Level]
CSS Programmer [Entry-Level]
HTML Programmer [Entry-Level]
Government-Certified Nuclear Engineer

In Progress

AWS Solutions Architect [Professional]
Python Programmer [Professional I]
JavaScript Programmer [Associate]
CSS Programmer [Associate]
HTML Programmer [Associate]

KEYWORDS

Bilingual (Spanish) · Collaborative · Creative · Dedicated · Innovative · Continuous Learner · Detail-Oriented · Proactive · Tenacious · Resilient

PROFESSIONAL OBJECTIVE

I am seeking a position in a medium-to-large sized company working as an **AWS Solutions Architect**, or a position that allows me to develop and to further my practice in **AWS**. It is my goal to become a great professional AWS architect. I am looking for **challenging projects** or new projects that require me to help design and bring to life. I am looking to join an already-established team that needs design and architectural help.

I am willing to work under a Senior or Principal AWS Architect to make a formidable team that completes projects with high quality. I am not interested in working for multiple clients at the same time. I want to work for a company to develop for that company alone; this is when I am able to delivery my best work.