James Michael Ballow

Cloud Architect and Solutions Engineer

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Professional Portfolio (Link)

Professional Summary

Dynamic and highly accomplished solutions architect with a extensive expertise in AWS Cloud, computer vision, cyber security, US nuclear operations, refrigeration, and comprehensive application/product development. My extensive technical knowledge and exceptional track record in crafting innovative solutions across diverse fields uniquely position me to contribute to a forward-thinking organization. Driven by a passion for groundbreaking problem-solving, I am eager to join a team of skilled professionals who share a commitment to collaboration and excellence.

Core Proficiencies and Tech Stack

- AWS Architect [Certified]
- AWS Security [Certified]
- AWS Networking [Certified]
- Python [Certified]
- React/TypeScript/JavaScript
- PostgreSQL/SQL/Flux
- CloudFormation (IaC)
- Computer Vision
- APIs/REST/Integrations

Career Summary

AWS Solutions Architect
2024 – present

Computer Enterprises Inc. (CEI)

Company Description

CEI is a trailblazing, minority-owned strategy/technology company that empowers businesses to thrive by seamlessly blending bold insights with innovative solutions to stay ahead in a rapidly-evolving world.

Responsibilities

- Design/develop AWS cloud solutions to solve problems small and large for both company and client.
- Engage with, consult, and teach clients about AWS and suitable AWS cloud solutions.
- Administration and security/cost monitoring of AWS tenant for company's AWS consultants.
- Formally document cloud solutions to match client, AWS, and company expectations.

Tech Stack: AWS Cloud & Security | Python | PostgreSQL | LINUX | Azure Bicep | GitHub Actions

Notable Projects and Achievements

- Designed serverless AWS solution for product license monitoring and reporting across SaaS products.
- Designed/deployed AWS solution for IAM auditing to maintain tenant security to support compliance.
- Obtained certifications in AWS Advanced Networking and AWS Security Specialty.

AWS Solutions Architect
2023 – 2024

Abacode Cybersecurity & Compliance Inc.

Company Description

Abacode combines advanced technologies/services to help businesses predict/prevent modern, sophisticated cyber threats while preparing them for strict compliance mandates.

Responsibilities

- Pioneered, architected, and developed Abacode's first cybersecurity web application for use by clients.
- Engaged with VPs, directors, and managers to collaborate on Abacode's vision for client products.
- Designed/developed entire architecture using ClouFormation (IaC with CDK/Python).
- Translated high-level requirements from management into project milestones (e.g., JIRA tickets).

Tech Stack: AWS Cloud & Security | CloudFormation (CDK) | Python | React | REST/APIs | CI/CD

Notable Projects and Achievements

- Pioneered/architected/developed Abacode's first cybersecurity product to expand Abacode's service offerings.
- Collaborated with an international vendor to integrate its data products with Abacode's cybersecurity product.
- Obtained certification in Microsoft Fundamental Security Principals.

Software Engineer — 2022 – 2023

Axiom Cloud Inc.

Company Description

Axiom Cloud makes cooling systems economically, environmentally, and operationally sustainable with IoT devices, AI modeling and remote device controlling mechanisms.

Responsibilities

- Researched/developed time series data models best for refrigeration anomaly detection to autonomously discover issues among many IoT devices across many grocery stores in USA and Canada.
- Worked in AWS to set up serverless services to facilitate the transfer of data from IoT devices to ML models for autonomous anomaly detection; programmed logic in Python.

Tech Stack: AWS Lambda/S3 | Python | ML (Time Series) | Bash/Csh/PowerShell | REST/APIs

Notable Projects and Achievements

- Pioneered solution to autonomously detect anomalous refrigeration behavior to scale detection by over 1000%.
- Obtained certifications in AWS Solutions Architect (Associate), Python (Associate), JavaScript, and C/C++.

Nuclear Engineer/Analyst and Software Developer — 2015 – 2022

Fluor Marine Propulsion (FMP)

Company Description

FMP, with nearly 8,000 engineers/scientists/technicians across multiple facilities, has been developing the most advanced naval nuclear propulsion technology in the world since 1946.

Responsibilities

- Trained US Naval Officers/Enlisted personnel to safely and strategically operate nuclear reactors.
- Designed multi-lab, multi-language software to enable/support/monitor analytics *en masse*.

Tech Stack: MATLAB | Python | Analytics Tools (NUPAC/COBRA/MELCOR) | Bash/Csh | Nuclear

Notable Projects and Achievements

- Designed multi-lab, multi-language software to enable/support/monitor concurrent analytics *en masse*.
- Pioneered an improvement to an onerous government process for financial betterment and expedition of work.
- Certification in Naval Nuclear Operations (Top 10% of graduating class).

| Education

2018 - 2022 — **M.S. in Computer Science** (Clarkson University)
Publication: *Real-Time Hand Gesture Identification in Thermal Images*

2015 - 2016 — **Nuclear Operations Certification** (Naval Nuclear Power Training Command)

2011 - 2015 — **B.S. in Chemical Engineering** (Florida State University)