

Matthew Palkimas

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STATEMENT

Software engineer with 5+ years of experience specializing in distributed systems and cloud-native architecture at AWS and Raytheon. Expert in AWS services, infrastructure automation, and high-performance computing. Delivers enterprise-scale solutions using Java, C++, Python, TypeScript, and Ruby. Active Top Secret clearance holder with strong focus on scalable, secure system design.

SKILLS

Programming Languages: Java, C++, TypeScript, Python, C, Ruby

AWS Services: Batch, ECS, EventBridge, CloudFormation, CloudWatch, EKS, SageMaker

Tools & Platforms: CDK, Git, Docker, GitHub, JUnit/Jest

Operating Systems: Windows, Unix, macOS

WORK

EXPERIENCE

AMAZON WEB SERVICES Denver, CO

June 2022 – Present

Software Dev Engineer II

ACTIVE TOP SECRET CLEARANCE

AWS Batch

February 2023 – April 2025

- Spearheaded region build automation initiative that transformed AWS Batch build from a multi-week, 8-SDE process into a streamlined one-week operation with 2 SDEs with minimal oversight.
- Created the framework above that is now used as reference architecture across AWS services.
- Implemented GetJobQueueSnapshot API and frontend components, enabling customers to efficiently monitor and manage their AWS Batch workload priorities.
- Executed critical infrastructure migration between AWS Batch and ECS, resulting in annual cost savings exceeding \$500,000 while improving system reliability.
- Architected and delivered complex year-long initiative to enable AWS Batch deployments in air-gapped environments, overcoming unique technical challenges to meet rigorous sponsor security requirements and compliance controls.
- Delivered 24x7 operational support for AWS Batch service, resolving enterprise customer escalations and maintaining high availability across standard and specialized infrastructure deployments.

AWS Parallel Compute Service (PCS)

April 2025 – Present

- Led IPv6 implementation strategy, including work decomposition and mentoring junior engineers.
- Contributed to core PCS service development and maintenance, enabling customers to efficiently run and manage high-performance computing workloads on AWS infrastructure

Team Resonance

June 2022 – February 2023

- Enabled global IoT continuous deployment and load testing capabilities at scale, ensuring automated validation after each deployment.
- CloudTrail migration to CDK from legacy CloudFormation deployment method.

RAYTHEON TECHNOLOGIES Marlborough, MA

Software Engineer II

June 2020 – June 2022

Radar Software Product Line Real Time Simulation Team

- Designed, implemented, and integrated missile model fault detection and fault recovery mode to closely align the simulation with real hardware for all missiles IQSim supports.
- Developed high-fidelity IQ data simulation framework enabling Radar Software team to validate software performance against realistic operational scenarios.
- Established the component test environment for the tracker refactoring effort. Created aircraft trajectories and an in-depth plotting system for post-run analysis in Matlab.
- Refactored AAW tracker architecture and tracking mission architecture to improve speed and general software design choices. Ability to run each component in isolation.

AVIONICA (GE JOINT VENTURE) Miami, FL

Software Engineering Intern

May 2019 – May 2020

- Implemented and released an edge application on Avionica's avWiFi that would parse and decode complex flight data (from the FDAU and FDR) using data frames from Python's Pandas library. Single handedly revived this project by optimizing the entire data flow and lowering the overall latency by 4000%.

EDUCATION

UNIVERSITY OF MIAMI Coral Gables, FL

Bachelor of Science in Software Engineering

Summer 2020

Minor: Electrical Engineering

Overall GPA: 3.67/4.00