

Adam Attia

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TECHNICAL SKILLS

Scripting Languages: Bash, C, C++, Java, Javascript, Rust, Python, Golang, Verilog

Cloud: Ansible, AWS, Azure, CI/CD, Docker, Helm, Kubernetes, kubectl, Terraform, Jenkins

Software & OS: Git, Jira, Linux (RHEL/Debian), Nginx, Node.js, OAuth 2.0, RESTful APIs, React, UI/UX, Cameo

Data Analytics: ActiveMQ, Prometheus, Grafana, Kafka, Hadoop, SQL, MongoDB

PROFESSIONAL EXPERIENCE

Lockheed Martin, Moorestown, NJ

June 2022 - Present

Software Engineer II

Java Event Processing Platform - Backend Developer

- Built Spring Boot microservice to process high-throughput asynchronous events, reducing message latency by 10%.
- Integrated ActiveMQ for real-time transmission, ensuring fault-tolerant communication with Unity frontend.
- Engineered protocol-buffer serialization pipeline and correlation logic for efficient parsing and routing of data streams.

Tactical Edge Health & Status Monitoring System - Full-Stack Developer

- Led an internal R&D team to architect and develop Android plugin dashboard for real-time system health analytics.
- Implemented a Python aggregator-collector framework that probes edge devices using custom APIs and ActiveMQ.
- Delivered a traffic-light UI overlay to intuitively represent system health and recommended actions based on data collected from distributed hardware via aggregator endpoints and messaging streams.

Azure-Based GIS Tracking Interface - DevOps Engineer

- Developed React-based dashboard displaying aircraft telemetry from ActiveMQ track data sources.
- Deployed scalable Azure environments using Terraform and Helm; optimized costs and resources for dev/staging.
- Engineered protocol-buffer serialization pipeline and correlation logic for efficient parsing and routing of data streams.

AWS GovCloud DevSecOps Infrastructure - DevOps Engineer

- Spearheaded Agile DevSecOps as Scrum master, managed Jira workflows, sprint planning, and progress reporting.
 - Designed system architecture diagrams illustrating components, flows, and deployment topologies via Cameo.
 - Provisioned EKS cluster using Terraform and Helm charts to deploy a secure, scalable data platform architecture.
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PROJECTS

Taskboard Planner Application

July 2024 - August 2024

Full-Stack Developer

- Developed Node.js taskboard planner with backend API via Golang and asynchronous frontend in React.
- Implemented user authentication using JSON Web Tokens to efficient user login and session management.
- Designed asynchronous RESTful API to retrieve and manage data from the MongoDB database.
- Established CI/CD pipelines using Jenkins to ensure continuous integration and deployment of new features.

Maze Generator and Solver

June 2024 - July 2024

Software Developer

- Engineered a Rust command-line interface app to generate and solve mazes of size NxN based on user input.
- Optimized generation algorithm using depth-first search and recursive backtracking to minimize runtime.
- Integrated Dockerfile to containerize the application, facilitating consistent deployment across environments.

Input Direction Robot

March 2020 - May 2020

Software Developer

- Programmed Pololu-3Pi Robot to take four sequences of inputs: direction, speed, time and execute them in order.
 - Wrote C++ code for GUI, directing the robot to turn, reverse, or move forwards, at various speeds and time intervals.
 - Automated testing procedures and documented design choices and algorithmic implementations.
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EDUCATION

Binghamton University, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Electrical & Computer Engineering

Cumulative GPA: 3.75/4.00

Bachelor of Science in Electrical Engineering

Cumulative GPA: 3.48/4.00