

Yauchin M. Lam

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PROFESSIONAL SUMMARY

Staff Software Engineer and U.S. Navy Veteran with experience building scalable backend systems, distributed cloud-native applications, and enterprise APIs using C#, .NET, Python, AWS, and Azure technologies. Previously held TS/SCI clearance (last active November 2021) with experience supporting secure, mission-critical, and high-availability environments.

Strong background in backend engineering, microservices, distributed systems, CI/CD automation, and cloud-native architectures with hands-on experience supporting scalable production systems and operational workflows. Experienced developing enterprise APIs, event-driven services, and AI-enabled cloud applications using AWS services, Terraform, GitHub Actions, Docker-based environments, and distributed cloud infrastructure. Proven ability to support modernization initiatives, improve operational reliability, and collaborate across backend and frontend engineering teams within Agile development environments.

EXPERIENCE

Applications System Architect III

June 2023 – April 2026

Arcfield | Chantilly, VA

- Designed and developed scalable backend services, enterprise APIs, and distributed cloud-native applications using C#, .NET, AWS, and Azure technologies
- Built distributed backend systems supporting event-driven communication, asynchronous processing, and operational workflows across secure cloud environments
- Developed AI-enabled cloud applications integrating AWS Bedrock and Azure OpenAI Service to automate workflows, support operational efficiency, and improve enterprise processes
- Developed AI-enabled cloud applications integrating Azure OpenAI Service and Workday SOAP APIs to automate enterprise data retrieval, workflow orchestration, and operational automation processes using React/Python
- Integrated AWS services including Lambda, S3, SQS, and distributed cloud infrastructure to support scalable backend processing and high-availability application architectures
- Built and maintained CI/CD pipelines using GitHub Actions to automate testing, deployment, and operational workflows across distributed systems
- Implemented Infrastructure as Code using Terraform to support scalable infrastructure provisioning, deployment consistency, and cloud-native operational reliability
- Supported containerized application environments using Docker-based workloads within distributed cloud-native architectures
- Monitored and supported production systems using AWS CloudWatch and Azure Monitor, improving observability, scalability, operational performance, and system reliability
- Participated in architecture discussions, backend system modernization efforts, technical design reviews, troubleshooting, deployment planning, and operational support activities
- Collaborated closely with backend and frontend engineering teams within Agile environments to deliver scalable, maintainable, and production-ready software solutions

Support Engineer - Azure Function Apps

Apr 2022 – June 2023

Microsoft | Irving, TX

- Supported cloud-based applications and backend services running on Azure using C# or Python, and troubleshooting production issues across distributed environments
- Worked directly with customers and engineering teams to resolve infrastructure, networking, and application-level incidents impacting operational systems
- Diagnosed and resolved high-priority production issues using Azure Monitor and KQL, improving system stability and uptime
- Supported microservices and event-driven application patterns within cloud-native environments
- Assisted with deployment validation, issue remediation, and operational support for enterprise cloud applications and APIs
- Collaborated across engineering and operations teams in Agile environments to improve reliability, scalability, and system performance
- Worked in fast-paced operational support environments requiring rapid troubleshooting, ownership, and cross-team coordination

Software Engineer

Nov 2021 – Apr 2022

Lockheed Martin | Orlando, FL

- Developed and maintained C# .NET Framework Windows Forms applications supporting the F-35 weapons training platform within a secure DoD environment
- Integrated C++ and C# software components supporting weapons loading and unloading simulation workflows in compliance with DoD operational requirements and procedures
- Worked with Windows desktop application functionality and backend integrations supporting mission and operational training systems
- Performed systems engineering activities including requirements analysis, validation, and compliance verification to ensure implemented functionality aligned with documented system requirements
- Updated and corrected unit testing for Windows Forms-based applications, improving software reliability, stability, and operational performance
- Troubleshot and resolved defects across integrated defense software systems and legacy desktop application architectures
- Worked within Agile/Scrum development environments, collaborating closely with engineering teams to support development, testing, and issue resolution in operational programs
- Mentored junior developers through code reviews, pair programming sessions, and technical guidance on application development, testing, and debugging practices

- Participated in collaborative code review processes to improve code quality, maintainability, and engineering best practices across the development team

Staff Engineer

July 2021 – Nov 2021

Booz Allen Hamilton | King George, VA

- Supported a TS/SCI-cleared project focused on maintaining and modernizing legacy geospatial and backend systems
- Updated portions of a legacy Visual Basic application using C# and Python to improve maintainability and system functionality
- Modernized and optimized SSIS and SQL-based ETL workflows, improving backend data processing and operational reliability
- Performed unit testing and validation of application functionality and integrated APIs to ensure system stability and performance
- Worked with ArcGIS-integrated C# APIs to support geospatial application functionality and backend system integration
- Supported backend systems handling large-scale geospatial and operational data within secure environments

Cloud Application Developer

January 2021 – May 2021

Microsoft | Lacey, WA

- Developed cloud-native applications using C#, Python, Azure Functions, Azure SQL, and Azure Web Apps, contributing to the delivery of multiple internal products and workflow solutions
- Built and supported backend APIs and cloud-based services within Azure environments
- Performed application monitoring and production troubleshooting using KQL and Azure Monitor to identify and resolve system issues
- Collaborated with engineering teams in Agile environments to support development, testing, and deployment activities

Nuclear Electrician (Active Duty)

April 2015 – January 2021

U.S. Navy | Bremerton, WA

- Operated and monitored electrical systems supporting U.S. Naval nuclear reactor operations aboard a submarine within mission-critical operational environments
- Maintained and troubleshot critical electrical and power systems, ensuring operational readiness and compliance with NAVSEA, Naval Reactor, and MIL-STD procedures
- Performed maintenance, overhaul, and testing of submarine electrical systems and VRLA battery infrastructure in coordination with shipyard personnel and external vendors
- Diagnosed and resolved equipment and system issues in high-pressure operational environments requiring rapid problem solving and technical precision
- Worked within highly regulated and procedural environments requiring strong operational discipline, attention to detail, and adherence to safety and security standards
- Mentored and trained junior sailors on operational procedures, equipment maintenance, troubleshooting practices, and compliance requirements within nuclear operational environments
- Collaborated across shipboard and maintenance teams to support continuous operational capability, engineering readiness, and mission success

SKILLS

Languages: C#, C++, Python, SQL, JavaScript, TypeScript, Node.js

Frameworks & Frontend: .NET Framework, React, REST APIs, Web API

Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure

AI & Generative AI: Amazon Bedrock, Amazon Lex, Azure OpenAI, Prompt Engineering

Containers & OS: Docker, Linux-based environments

DevOps & Automation: CI/CD, GitHub Actions, Terraform, Azure DevOps

Networking & Platform: TCP/IP, DNS, TLS, API Gateways, Load Balancers

Messaging & Integration: Amazon SQS, Event-Driven Architecture, SOAP (Workday APIs)

Monitoring & Observability: Azure Monitor, AWS CloudWatch, KQL

Tools & Practices: Git, Agile/Scrum, System Reliability, Incident Response, Performance Optimization

EDUCATION

Bachelor of Science, Pure & Applied Mathematics | Stevens Institute of Technology, Hoboken, NJ

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

AWS Certified Developer - Associate

AWS Certified Solutions Architect - Associate