

Darian Lee

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Technical Skills

- **Amazon Web Services (AWS):** Amazon EC2, AWS Lambda, Amazon ECS, Amazon S3, Amazon Aurora, Amazon VPC, Application/Networking Load Balancing, AWS CDK, AWS CloudFormation, Amazon SQS, Amazon SNS, Amazon EventBridge, Amazon SageMaker, Amazon API Gateway
- **Development & Tools:** Python, Docker, Terraform, Yaml, SQL, Selenium
- **Version Control & CI/CD:** GitLab, GitHub, Gitlab CI/CD, Jenkins, Nexus
- **Monitoring & Observability:** Amazon CloudWatch, AWS CloudTrail, Grafana
- **Databases & Analytics:** Amazon RDS, MySQL, Amazon DynamoDB
- **Data Processing:** ETL Pipelines, AWS Step Function Workflows
- **System Architecture:** Microservice Patterns, Serverless Architectures, Data Lake Architecting
- **Methodologies:** DevOps, Agile/Scrum

Experience

Independent Consulting

August 2025 - Present

Contractor

Remote

- Provided technical diagnostic and incident response services for small business clients
- Identified WooCommerce Store API bot exploits and guided client through Cloudflare edge security implementation, resulting in zero fraudulent orders post-resolution
- Conducted systematic root cause analysis resolving 503 production error through plugin isolation, PHP-level debugging, and WooCommerce query analysis.

Amazon Web Services (AWS)

December 2020 - August 2025

Cloud Consultant

Arlington, VA

- Led design and implementation of serverless ETL pipeline architecture using AWS Step Functions, Amazon EventBridge, Amazon ECS Fargate, and Docker Containers, transforming legacy server-backed system into automated workflow orchestration with S3 triggered AWS Lambda functions and SQS message queuing for reliable data processing
- Engineered a scalable data transformation system handling more than 10,000 concurrent files using AWS Step Functions state machine orchestration, Amazon S3 event notifications, and Amazon ECS task definitions, implementing custom Python scripts for batch processing with CloudWatch monitoring and automated error handling through SNS notifications
- Architected and deployed production-ready SageMaker solution improving operational capacity and securing additional funding through enhanced security implementations, automated deployments, and comprehensive documentation
- Architected and implemented enterprise data lake solution using AWS CDK, designing multi-stage (Bronze/Silver/Gold) data processing architecture with S3 event-driven pipelines, SQS message queuing, AWS Lambda-triggered workflows, and Step Functions orchestration, incorporating AWS Glue jobs for data transformation and implementing CDK Nag for security compliance
- Developed data visualization solution using Streamlit and Python, creating interactive dashboards for Amazon SageMaker model outputs, integrating with Amazon S3 for data storage and leveraging Amazon ECS Fargate for serverless deployment, enabling rapid analysis of machine learning inference results
- Engineered CI/CD automation framework using GitLab CI/CD and AWS CDK, implementing custom Python scripts for infrastructure template conversion, incorporating automated testing, security scanning, and deployment validation, resulting in 94% reduction in manual operations and standardized Infrastructure as Code (IaC) practices
- Automated end-to-end serverless email automation system using AWS Step Functions workflow, implementing S3 event-triggered processing, Amazon CloudTrail monitoring, Amazon EventBridge rules for routing, and Amazon DynamoDB for email address management, with custom AWS Lambda functions for SMTP processing and intelligent attachment handling based on size thresholds
- Engineered automated security analysis platform integrating SleuthKit with Amazon API Gateway and AWS Lambda for encryption detection, implementing parallel processing algorithms that reduced scan times by 67% while enhancing compliance workflows and security validation processes
- Architected and implemented enterprise-scale AWS solutions, including Data Lakes using S3 and Glue, CI/CD pipelines with CodePipeline, ETL workflows leveraging Step Functions, and analytics UIs with Grafana, while leading DevOps transformations emphasizing infrastructure-as-code, automated security scanning, and performance monitoring
- Established comprehensive technical enablement artifacts reaching more than 4,400 AWS employees globally, conducted hands-on workshops to over 30 students/industry specialists, and participated in over 20 technical panels to evaluate cloud expertise and system design capabilities

General Dynamics Information Technology (GDIT)

April 2019 - December 2020

Applications Developer

Falls Church, VA

- Led AWS infrastructure operations managing multi-service environment including Amazon RDS database optimization, Amazon SQS queue monitoring, S3 bucket security compliance, and implementing CloudWatch automated alerting for enhanced system reliability
- Developed Java-based microservices and REST APIs integrated with MySQL databases, implementing automated CI/CD

pipelines and establishing coding test standards for maintainable, scalable backend solutions

- Architected comprehensive test automation framework using Selenium and JUnit, creating reusable test patterns for UI components, API integration, and database validation, reducing regression testing time by 60%
- Implemented end-to-end testing strategy incorporating automated UI testing (file uploads, form validation, content verification), establishing team-wide quality assurance standards and increasing deployment confidence through continuous integration

SCLogic

March 2018 - April 2019

Software Support Analyst

Annapolis, MD

- Collaborated with backend development team implementing enterprise software solutions using SQL Server, developing stored procedures and optimizing database queries for improved application performance across global client base
- Led technical troubleshooting of client systems, resolving complex server-to-server communication issues, database connectivity problems, and software integration challenges while maintaining 24-hour SLA requirements
- Delivered on-site technical implementations for enterprise clients, conducting system installations, performing data migrations, and providing hands-on training for customer success teams across multiple geographic locations
- Developed and executed SQL queries for database management and maintenance, creating automated tasks for performance monitoring, data cleanup, and system optimization while ensuring data integrity and backup procedures

Certifications

Amazon Web Services (AWS):

- AWS Certified DevOps Engineer – Professional
- AWS Certified AI Practitioner
- AWS Certified SysOps Administrator
- AWS Certified Developer
- AWS Certified Cloud Practitioner

Additional Technical Certifications:

- CompTIA Security+ ce Certification
- HashiCorp Terraform Associate
- Microsoft Azure Fundamentals (AZ-900)

Education

University of Maryland, Baltimore County – B.S. Information Systems, 2017