

Karl Bastian Cunanan Lacap

Middle AWS Certified Cloud Practitioner and Software Engineer

SUMMARY

- AWS Certified Cloud Practitioner with hands-on experience in Node.js, TypeScript, REST APIs, and AWS services including Lambda, S3, DynamoDB, and EventBridge.
- Proficient in CI/CD pipelines using GitHub Actions and Jenkins, with expertise in automated testing frameworks like Jest for unit and integration testing.
- Developed and deployed scalable cloud-hosted SaaS platforms and backend systems with secure authentication (JWT, Argon2) and infrastructure as code (CloudFormation).
- Strong background in backend development, API design, deployment automation, and production troubleshooting on Linux and AWS EC2 environments.

TECHNICAL SKILLS

Main Technical Skills	Node.js (4 yr.), AWS (1 yr.), Jest (1 yr.), Github Actions (2 yr.)
Programming Languages	JavaScript (4 yr.), PHP (4 yr.), Python (3 yr.), TypeScript (4 yr.)
JavaScript Frameworks	Angular (1 yr.), Express (4 yr.), Next.js (2 yr.), Node.js (4 yr.), React (4 yr.)
JavaScript Libraries and Tools	Pm2
Security	AWS Security Groups, GuardDuty, IAM (1 yr.)
Databases & Management Systems / ORM	AWS DynamoDB (1 yr.), Microsoft SQL Server (1 yr.), MongoDB (1 yr.), PostgreSQL, SQL (4 yr.)
UI Frameworks, Libraries, and Browsers	CSS (4 yr.), HTML (4 yr.), Tailwind CSS
Cloud Platforms, Services & Computing	AWS (1 yr.)
Amazon Web Services	AWS Cloudformation (1 yr.), AWS CloudTrail, AWS CloudWatch (1 yr.), AWS DynamoDB (1 yr.), AWS EC2 (1 yr.), AWS EventBridge (1 yr.), AWS Lambda (1 yr.), AWS S3 (1 yr.), AWS Security Groups, AWS VPC (1 yr.)
Methodologies, Paradigms and Patterns	Agile, TDD
Deployment, CI/CD & Administration	CI/CD (1 yr.), Jenkins (1 yr.)

Virtualization, Containers and Orchestration	Docker (2 yr.)
Version Control	Git, Github Actions (2 yr.)
QA, Test Automation, Security	Jest (1 yr.), Postman
Mail / Network Protocols / Data transfer	JWT (4 yr.)
SDK / API and Integrations	JWT (4 yr.), RESTful API (4 yr.)
Operating Systems	Linux (3 yr.)
Web/App Servers, Middleware	Nginx (3 yr.)

WORK EXPERIENCE

Software Engineer (CurioDocs: Collaborative Document Workspace)

Duration: Jun 2026 – Present

Summary:

- A cloud-hosted SaaS platform designed and deployed using Node
- js/TypeScript, AWS S3, CloudFormation, Docker, and Nginx to provide collaborative document workspace services with secure file storage and automated deployment pipelines

Responsibilities:

- Designed and developed backend functionality and REST APIs with authentication, authorization, validation, and error handling.
- Integrated AWS S3 for secure file storage and retrieval.
- Defined and provisioned cloud infrastructure using AWS CloudFormation for infrastructure-as-code.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions for automated builds, testing, and deployments.
- Containerized backend services with Docker for consistent environments.
- Performed application troubleshooting, log analysis, API validation, and deployment verification on Linux and AWS EC2 infrastructure.

Technologies: Node.js, TypeScript, React, AWS S3, CloudFormation, Docker, Jenkins, GitHub Actions, Nginx

Software Engineer (Provident Loan System: DepEd SDO Accounting Platform)

Duration: Apr 2026 – Present

Summary: A transaction-based backend system for DepEd SDO accounting platform focusing on reliable data processing, validation, authentication, and accurate business logic implementation.



Responsibilities:

- Collaborated on backend system development ensuring reliable data processing and validation.
- Implemented and maintained REST API functionality using backend services and SQL Server.
- Implemented JWT authentication, Argon2 password hashing, and role-based access control for secure API operations.
- Used Docker to maintain consistent development and deployment environments.
- Performed API validation, debugging, and application troubleshooting during development and deployment.

Technologies: Next.js, Node.js, Docker, SQL Server, REST API, JWT

Software Engineer (Smile: Appointment Management System)

Duration: Sep 2024 – Present

Summary:

- A Progressive Web Application for appointment scheduling and patient record management developed using Next
- js, Node
- js, Express, and MongoDB with CI/CD automation and application monitoring

Responsibilities:

- Developed frontend and backend components for appointment scheduling and patient record management.
- Designed and implemented REST APIs with validation and secure data processing.
- Performed API testing and functional validation of backend endpoints.
- Implemented CI/CD pipelines using GitHub Actions for automated builds, testing, and deployment.
- Configured Nginx as a reverse proxy and performed application monitoring, troubleshooting, and deployment verification.

Technologies: Next.js, Node.js, Express, MongoDB, AWS, GitHub Actions, Nginx

Full Stack Developer (Gordon College Alumni Connection and Organization)

Duration: Jan 2024 – May 2024

Summary: A full-stack web application developed to connect Gordon College alumni using Angular frontend and PHP REST APIs with MySQL database for persistent data storage and communication.

Responsibilities:

- Developed frontend using Angular and backend REST APIs using PHP.
- Implemented authentication, API integration, input validation, and email notification functionality.
- Performed functional testing and validation of frontend workflows and backend API responses.

Technologies: PHP, Angular, MySQL, REST API



Full Stack Developer (ChatMe: Realtime Chat Application)

Duration: May 2024

Summary: A real-time chat application built using Angular, PHP REST APIs, MySQL, and Pusher to enable instant messaging and user session management.

Responsibilities:

- Built frontend with Angular and backend REST APIs with PHP.
- Implemented and tested REST API functionality, authentication, user sessions, and real-time messaging workflows.

Technologies: PHP, Angular, MySQL, Pusher

Software Engineering Intern - Skydev Solutions Inc. (Software Development and Quality Assurance)

Duration: Feb 2025 – May 2025

Summary: Internship involving quality assurance and software engineering tasks including functional testing, defect identification, backend and frontend development, and CI/CD integration using modern web technologies and cloud platforms.

Responsibilities:

- Performed functional testing, test validation, defect identification, regression testing, and production-level software quality checks.
- Designed and executed test scenarios to verify application functionality and ensure software behavior matched requirements.
- Collaborated with engineers to reproduce, document, and track defects.
- Developed and enhanced frontend and backend features using JavaScript/TypeScript.
- Contributed to CI/CD initiatives using GitHub Actions and Google Cloud Platform.
- Participated in code reviews, debugging, issue investigation, and Agile development discussions.
- Performed application troubleshooting and log analysis before deployment.

Technologies: JavaScript, TypeScript, Node.js, REST APIs, Jest, GitHub Actions, Google Cloud Platform

AWS CC PH Mentee - AWS Cloud Club Philippines (AWS Cloud Learning Projects)

Duration: Dec 2024 – Present

Summary: Hands-on cloud learning projects and exercises focused on practical experience with AWS services including serverless architectures, event-driven applications, data storage, monitoring, and security configurations.

Responsibilities:

- Gained practical experience with AWS services such as S3, Lambda, DynamoDB, SQS, EventBridge, EC2, VPC, IAM, and CloudWatch.
- Worked with serverless architectures and event-driven application patterns.
- Practiced data storage and retrieval using DynamoDB and S3.
- Used CloudWatch Logs and monitoring for application behavior investigation and troubleshooting.



- Applied AWS IAM and VPC fundamentals for resource configuration and environment isolation.
- Created technical documentation for serverless and cloud monitoring solutions.

Technologies: AWS S3, Lambda, DynamoDB, SQS, EventBridge, EC2, VPC, IAM, CloudWatch

IT Intern - Commission on Elections Olongapo City (Inventory Tracking and Voter Record Management Application)

Duration: 2023

Summary: Development of a Java Swing application for inventory tracking and voter record management to assist IT operations and secure data handling.

Responsibilities:

- Developed Java Swing application for inventory tracking and voter record management.
- Assisted IT staff with secure data handling, system validation, troubleshooting, and maintaining system integrity.

Technologies: Java Swing

EDUCATION

- **Gordon College Olongapo City**
Bachelor of Science in Information Technology, Cum Laude, Programmer of the Year, Excellence Award
Sept 2022 – July 2026
- **St. Nicholas Academy Castillejos, Zambales**
Technical Vocational Track: Home Economics
2020 – 2022

CERTIFICATION

- **AWS Certified Cloud Practitioner**
Amazon Web Services
Jan 2025
- **Cisco CCNAv7: Switching, Routing, and Wireless Essentials**
Cisco Networking Academy
Dec 2024
- **Cisco CCNAv7: Introduction to Networks**
Cisco Networking Academy
Jun 2024
- **Cisco Introduction to Cybersecurity**
Cisco Networking Academy
Dec 2024
- **AWS Cloud Foundations**
AWS Academy
Nov 2024

