

# STENNIS SMITH

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## Project Experience

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### Text-to-Text Application (AWS Polly, API Gateway, Lambda, CloudFront, S3) | [\(Link\)](#) September 2025

- Built a serverless text-to-speech web application using AWS Polly, reducing deployment time by 95% through automated CI/CD pipelines with Terraform.
- Implemented backend logic in AWS Lambda (Python, Boto3), with IAM roles and fine-grained permissions for secure cross-service integration.
- Hosted frontend on Amazon S3 for static hosting with CloudFront for CDN, caching, global distribution, and scalability; integrated API Gateway for secure request routing.

### Full Stack Application (AWS Amplify, AppSync, Lambda, DynamoDB) | [\(Link\)](#) August 2025

- Deployed a full-stack application via AWS Amplify, achieving an average deployment time of 70% by automating CI/CD pipelines integrated with GitHub.
- Implemented serverless authentication logic designed to scale to 10K+ users with Lambda and DynamoDB.
- Configured DynamoDB tables with on-demand capacity and partition key design to scale horizontally, supporting growth to millions of users and hundreds of GB of data.

### DevOps and Containerization Technologies July 2025

- Engineered a Kubernetes-based deployment platform for Dockerized applications, achieving 99.95% uptime and reducing deployment rollback time from hours to minutes with automated health checks and rollbacks.
- Provisioned and managed containerized applications on AWS using Elastic Container Registry (ECR) and Elastic Container Service (ECS), integrating an Application Load Balancer (ALB) to distribute traffic.

### Java Desktop and Web Projects – AmaliTech Graduate Trainee April 2025

- Engineered desktop and web applications using Java FX and Spring MVC framework.
- Integrated data accessibility implementing optimized MySQL database schemas, cutting average query response times by 25%, and enabling faster front-end data rendering.

### Redesign of Webpages – Front-end Project November 2024

- Designed high-fidelity, responsive prototypes in Figma for 5+ key user flows, reducing front-end development time by 23% by providing clear, actionable guidance and eliminating ambiguity.
- Modernized and styled the entire application using Bootstrap, achieving a 90+ Lighthouse accessibility score and ensuring a seamless experience across all device breakpoints.

## Experience

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### Junior Software Engineer July 2025 – November 2025

#### OwnKey

- Developed and launched key Flutter features like video shorts and interactive property listings, leading to a 25% increase in average session duration.
- Partnered with 5-6 backend, testing and operation teams in Agile sprints, contributing to code reviews and scalable feature architecture.
- Optimized REST API data flows with caching, responsive layouts, and performance fixes, improving load times and UI/UX.

### Graduate Software Engineer October 2024 – February 2025

#### Solar Taxi

- Delivered a full-stack Charging Locator app from concept to production with a 3-person team, designing 15+ screens in Flutter.
  - Architected and prototyped mobile UI/UX for an EV Charging locator app in Figma, and web screens for the Solar Taxi website redesign.
- Developed and deployed authentication web pages for the website redesign project, hosted on GitHub for remote access.

### Asst. IT Officer May 2024 – July 2024

#### Ministry of Environment, Science, Technology and Innovation

- Diagnosed and resolved 25+ technical support requests, improving first-contact resolution rate by 25% and contributing to a 40% reduction in average request resolution time.
- Facilitated key IT processes, cutting average system response time by 30%, and increasing user satisfaction scores by 15%.

## IT Support (Systems Administration)

August 2023 – April 2024

### Ghana Commodity Exchange

- Administered and optimized IT infrastructure to ensure reliable performance and cost efficiency.
- Led a Security Education and Training Awareness (SETA) program, strengthening organizational cybersecurity knowledge and preparedness.
- Automated routine administrative tasks, increasing efficiency, and reducing system downtime.

## Education

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### Master of Business Administration: Management Information Systems

University of Ghana Business School

February 2025

Accra, Ghana

### Bachelor of Science: Information Technology

University of Ghana

July 2021

Accra, Ghana

## Certifications

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- AWS Solutions Architect Certification – Associate [[Credential](#)]
  - Frontend Web Development, ALX Africa [[Credential](#)]
  - ALX Freelancer Academy, ALX Ventures [[Credential](#)]
  - AWS Knowledge: Cloud Essentials, Amazon Web Services (AWS) [[Credential](#)]
  - Backend Web Development, ALX Africa [[Credential](#)]
  - ALX Ventures Gig-at-a-Startup Programme (Prototype Designer), ALX Ventures [[Credential](#)]
  - Professional Development for the Digital Age, ALX Africa [[Credential](#)]
  - CC (Certified in Cybersecurity) - International Information Systems Security Certification Consortium, ISC2 [[Credential](#)]
  - Project Management, Cambridge Center of Excellence [[Credential](#)]

## Skills

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| <ul style="list-style-type: none"><li>• <b>Cloud Platforms:</b> AWS (EC2, S3, Lambda, IAM, CloudFront, API Gateway)</li><li>• <b>Infrastructure as Code and DevOps:</b> Terraform, AWS CLI, GitHub Actions.</li><li>• Mobile App Development, Flutter/Dart</li><li>• Version Control</li><li>• Research and Development</li></ul> | <ul style="list-style-type: none"><li>• <b>Programming:</b> JavaScript, Flutter, Java.</li><li>• <b>Framework:</b> ReactJS.</li><li>• <b>Databases:</b> MySQL – relational modelling, query optimization</li><li>• <b>Containerization technologies</b> (Docker, Kubernetes)</li><li>• <b>System administration</b> (Linux servers)</li><li>• UI/UX Design</li></ul> |
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