

BUI ANH KENT

FULL STACK SOFTWARE ENGINEER

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PROFILE

Full Stack Software Engineer with a Computer Engineering background and a track record of shipping scalable, cloud-native applications across DevOps, serverless data pipelines, and applied AI. Comfortable owning features end-to-end — from AWS infrastructure and CI/CD to backend services and production monitoring — and increasingly leading delivery. Agile mindset, bias for clean maintainable code, and a habit of continuous learning.

EDUCATION

Bachelor of Computer Engineering

2020 – 2024

Ho Chi Minh City University of Technology (HCMUT)

- **Capstone:** Real-time AI-Integrated Security Camera System — a Video Surveillance as a Service (VSaaS) approach.
- **Research Paper (First Author):** *Accelerating Emerging Computer Vision Models for Video Surveillance as a Service (VSaaS) using Edge TPU* — written but not publicly available.

PROFESSIONAL EXPERIENCE

atWare Vietnam

Ho Chi Minh City · August 2023 – Present

Team Lead & Full Stack Engineer — Offline-First PWA

Apr 2026 – Present · Team of 3

- Leading delivery of an offline-first Progressive Web App that stays fully usable on unreliable networks through service worker caching and background sync.
- Designed a sync engine with a Last-Write-Wins conflict-resolution strategy, plus queued writes that replay on reconnect with rate limiting and exponential backoff for fault-tolerant sync.
- Implemented a CQRS backend, separating command and query paths so offline write-replays and reads scale independently.

Full Stack Engineer — AI Avatar Chatbot Web App

Oct 2025 – Present · Team of 8

- Built an interactive AI avatar chatbot backed by an LLM, with two-way voice interaction — users speak to the avatar and it responds accordingly — and integrated it into an existing production web app without disrupting current users.
- Set up production error monitoring with Datadog and authored performance (Artillery, Playwright) and end-to-end test suites.

AI Engineer — Domain-Specific SLM Fine-Tuning

Jul 2025 – Oct 2025 · Team of 4+

- Fine-tuned open-source Small Language Models on Japanese domain-specific data using LoRA/QLoRA to cut GPU memory and training cost while preserving quality.
- Implemented LLM guardrails (input validation, prompt filtering, sensitive-data and harmful-content detection, structured output) and delivered a working fine-tuned PoC.

Full Stack Engineer — Agentic AI Assistant Application

Mar 2025 – Dec 2025 · Team of 3+

- Built a custom in-house AI Agent invoking Claude and GPT models via the AWS Bedrock SDK, enabling multi-step task handling beyond plain Q&A, with responses streamed over Server-Sent Events.
- Persisted conversation history in MongoDB for cross-session context and built a dedicated file-encoding microservice within a microservices architecture.

Full Stack Engineer — Video Monitoring Web Application

Oct 2024 – Jul 2025 · Team of 5+

- Built a web-based admin app for monitoring and controlling video recording feeds, with serverless retrieval pipelines (AWS Lambda on EventBridge schedules).
- Used Amazon SQS for fault-tolerant transport, sustaining throughput of nearly 50 GB of video daily.

Full Stack Engineer — CI/CD Pipeline Migration

Jun 2024 – Oct 2024 · Team of 5+

- Designed a scalable CI/CD pipeline on AWS CodeBuild, improving deployment reliability and cutting build times; migrated 100+ workflows from Jenkins to GitHub Actions.

Full Stack Engineer — Protected Areas GIS Web Application

Aug 2023 – Jun 2024 · Team of 3

- Built a protected-area data management app combining interactive Mapbox maps with charts for statistical analysis, working directly with stakeholders to align on requirements.

TECHNICAL SKILLS

Cloud & DevOps	AWS, Docker & Kubernetes, CI/CD Pipelines (GitHub Actions, Jenkins, CodeBuild), Microservices Architecture
Backend	TypeScript, NestJS, Node.js, Go, Python, RESTful APIs, GraphQL, Server-Sent Events
Frontend	Next.js, React, Progressive Web Apps, Service Workers
AI / ML	LLM Fine-Tuning (LoRA/QLoRA), NLP, AWS Bedrock, Prompt Engineering & Token Optimization, LLM Guardrails
Data	SQL & NoSQL Database Design, PostgreSQL, RDS, MongoDB, IndexedDB, Amazon SQS
Practices	Agile Methodologies, CQRS, Clean Code, Production Monitoring (Datadog), Testing (Playwright, Artillery)

CERTIFICATIONS & LANGUAGES

AWS Certified Developer – Associate · Amazon Web Services	2026
MongoDB Indexing Design Fundamentals · MongoDB	2025
JLPT N5 (Japanese Language Proficiency) · Japan Foundation / JEES	2025