

Nghia Pham

Cloud DevOps & Mobile Engineer

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Ingolstadt, Germany

Engineer with end-to-end experience across cloud infrastructure, mobile development, and AI integration. Completing a Master's thesis at **AUDI AG** building scalable AWS platforms with Terraform, Jenkins, AWS CodeDeploy, and CloudWatch. Co-built and shipped **Sylex Assistant Pro** — a multilingual voice AI assistant for iOS & Android (React Native, ASR/LLM/TTS). Built **KiemToHoaThan**, a Node.js backend with MongoDB and Discord bot integration.

TECHNICAL SKILLS

Cloud Platform	AWS, EC2, RDS, S3, IAM, VPC, AWS Lambda, ASG, CodeDeploy, SNS, CloudWatch
IaC & Automation	Terraform, Modular Terraform, Remote State, Auto-Scaling, Shell Scripting
CI/CD & VCS	Jenkins, Docker, GitHub Actions, Bitbucket Pipelines, Git, CI/CD Pipelines
Observability	CloudWatch Dashboards, CloudWatch Alarms, ASG Alarm Management, SNS Notifications, Log Insights
Architecture	Microservices, Cloud-native, Serverless, Event-driven, Scalable Systems, Agile / Scrum
Development	TypeScript, JavaScript, Node.js, React Native, Python, Bash, MongoDB, SQL, PHP, Salesforce, i18next, Jest, Voice AI (ASR/TTS)

WORK EXPERIENCE

Master's Thesis — Cloud DevOps

03/2025 – 09/2025

AUDI AG

📍 Ingolstadt, Germany

- ▶ Thesis: "**Audi CI/CD Platform: Move2AWS — Implementation of Platform Infrastructure**"
- ▶ Designed and implemented an automated **CI/CD platform** for AWS cloud migration.
- ▶ Extended monitoring automation with **dynamic ASG alarm management** via AWS Lambda.
- ▶ Built modular **Terraform modules** for alarms, dashboards, and deployment workflows.
- ▶ Automated deployment processes via **Jenkins pipelines** with AWS CodeDeploy.

Cloud Engineer Intern

08/2024 – 01/2025

AUDI AG

📍 Ingolstadt, Germany

- ▶ Designed and implemented a **monitoring & dashboard solution** with AWS CloudWatch (EC2, RDS, ASG, LB).
- ▶ Automated release and deployment processes with **Jenkins, Bitbucket, Terraform** and AWS CodeDeploy.
- ▶ Created CloudWatch dashboards and alarms to **improve system transparency**.

Fullstack Developer

08/2020 – 12/2022

Cloud Effect Online GbR

📍 Vietnam

- ▶ Cross-platform game development (Web, iOS, Android) on a **microservices architecture**.
- ▶ Published apps on **Apple App Store, Google Play, and Amazon Store**.
- ▶ Full ownership of analysis, design, programming, testing, and maintenance.

PHP & Salesforce Developer

06/2019 – 08/2020

2NF Japan

📍 Vietnam

- ▶ Developed web applications and **CRM/CMS solutions** for Japanese clients.
- ▶ Built custom Salesforce integrations and PHP backends.

PROJECTS

Sylex Assistant Pro

Multilingual voice AI assistant (React Native). ASR → LLM → TTS orchestration, 7 locales, iOS & Android — App Store & Google Play.

React Native

TypeScript

Voice AI

i18next

KiemToHoaThan

Discord bot with game subsystems, AI integration (Gemini), wiki web interface, and CI/CD deployment on Render.

Node.js

MongoDB

Discord.js

Gemini API

Audi CI/CD Move2AWS

Enterprise CI/CD platform migrating on-premise pipelines to AWS — Jenkins, Terraform, CloudWatch alarm automation via Lambda.

Terraform

Jenkins

AWS Lambda

AWS CloudWatch Monitoring

Full observability for EC2, RDS, ASG, and Load Balancers — automated alarms, dynamic dashboards, structured alerting via SNS.

CloudWatch

EC2 / RDS

Lambda

EDUCATION

Master of Science

2023 – 2026

Cloud Applications and Security Engineering

Technische Hochschule Ingolstadt · Germany

Bachelor of Science

2015 – 2019

Information Technology

Hanoi University of Education · Vietnam

LANGUAGES

German — B2

English — Fluent

Vietnamese — Native