Tuan-Anh Bui

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Summary

Experienced Software Engineer with a strong foundation in Computer Science and expertise in designing scalable cloud-native architectures and distributed systems. Proficient in C#/ .NET, Java, and Python, with hands-on experience in Azure and AWS platforms. Skilled in implementing industry best practices to optimise performance and drive engineering excellence. Passionate about mentoring teams, fostering collaborative cultures, improving (DevOps) workflows, and integrating AI solutions to enhance efficiency and innovation.

Technical Skills

Programming: Backend (C#/.NET, Python, Java, Node), Web (PHP, HTML/JavaScript, Vue, etc.)
Software Development: Clean code practices, SOLID principles, design patterns, and robust testing strategy (TDD, BDD)
Architecture: Event-driven, scalable distributed system (Microservices) with queues (NATS, RabbitMQ) or Actor model
Cloud-native: CI/CD pipelines (Azure DevOps/Github Actions) with containerised deployment via Kubernetes and Helm
Automation: Unix tools, CLI, Git for scripting and workflow optimisation
Databases: SQL (MySQL, PostgreSQL, SQL Server), NoSQL (MongoDB)
Data Engineering and Big Data Processing: Data streaming and processing using Databricks and Delta tables
Observability: End-to-end system monitoring and performance analysis using DataDog
AI Integration: Experience with AI-driven development tools (Copilot) and frameworks (Langchain, OpenAI API)

Experience

Moody's   Nov 2020 – Feb 2025
Senior Software Engineer   *Remote, United Kingdom*

- Designed and implemented multiple microservices for an asset management platform with risk/valuation analysis
- Optimised APIs, queues, search, and databases, achieving 2-3x increase in system throughput
- Built pipelines to stream and reconcile data from various sources, replacing legacy ETL, with Databricks/Delta tables
- Maintained a data warehouse of financial and business information, covering over 500,000 companies
- Site reliability: Implemented real-time monitoring with Datadog APM, custom metrics, and .NET tracing
- Integrated .NET services with GenAI systems, automating data extraction & processing
- Led team initiatives in Data Engineering & AI integration; Mentored junior engineers
- Tech Stack: C#/.NET, Orleans, MSSQL, Azure/AWS, Kubernetes, REST/gRPC APIs, PySpark, Python

Wemanity   May 2020 – Oct 2020
Software Engineer - Tech Lead   *Brussels, Belgium*

- Developed an MVP web platform for UX professionals within 5 months using React, NodeJS, PostgreSQL, Docker
- Led a team of 4 engineers, coordinating development and deployment processes

AW Europe   Jul 2019 – Apr 2020
Software Engineer   *Braine l'Alleud, Belgium*

- Built real-time traffic data processing modules, contributing to smart city applications using C#, .NET Core, NUnit
- Achieved 95%+ unit test coverage with an agile development approach and Azure DevOps

Swift   Jul 2017 – Jun 2019
Software Engineer   *La Hulpe, Belgium*

- Migrated monolithic applications to microservices, modernising Swift's infrastructure
- Utilised Java, VueJS, React, NodeJS, Docker, Jenkins, and Ansible for development and deployment

GSK   Nov 2015 – Jun 2017
Software Engineer   *Wavre, Belgium*

- Built a clinical sample tracking system using C#/.NET & WPF

Other Experience

Kyung Hee University   Sep 2011 – 10 2012
PhD candidate & Research Assistant   *Suwon, South Korea*
- Domains of interest: (Mobile) Cloud Computing, network design
- Publications can be found from my Google scholar page

Hanoi University   Jan 2010 – Aug 2011
Teaching & Research Assistant   *Hanoi, Vietnam*
- Domains of interest: Object-oriented design, Antispam, Network security

NewCreation JSC   Jan 2010 – Aug 2013
Web developer/Founder   *Hanoi, Vietnam*
- I co-found a startup that designed websites and provided web-based services for SMEs

Education

Université Catholique de Louvain   Sep 2013 – Jan 2016
MSc in Computer Science   *Louvain-la-Neuve, Belgium*
Hanoi University   Sep 2005 – Jan 2010
BSc in Computer Science   *Hanoi, Vietnam*

Languages

English: Fluent
French: Beginner