

Thong Ton

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SUMMARY

Software engineer with 4+ years of experience designing and building scalable backend systems, cloud-native applications, and AI-powered solutions. Skilled in Python, Java, SQL, distributed systems, and API/MCP server development. Led a platform team delivering production workloads, built end-to-end data pipelines, and developed AI agentic systems, driving reliability and performance at enterprise scale

EDUCATION

University Of Washington | B.S Computer Science & Software Engineering - 3.83/4.0 GPA (Top 6.5%)

Graduated July 2022

PROFESSIONAL EXPERIENCE

MAQ Software

Technical Lead - Microsoft (Vendor Partner)

October 2023 - Present

- ❖ Lead a five-member platform team delivering 100+ production workloads across Azure Search, Storage, Cosmos DB, Containers, Azure Functions, and Networking in \$10M+ per year subscriptions; own end-to-end scope, automate deployment via ARM/BICEP, and manage risk, enabling 500+ developers across the organization
- ❖ Drive Secure Future Initiative (SFI), enhancing security across Microsoft Customer & Partner Solution teams by implementing vulnerability assessments, responsible AI practices, and compliance automation, reducing security risks and maintaining Azure subscription and business service security scores above 95%
- ❖ Build AI solutions for enterprise using Azure AI Foundry, Azure OpenAI (GPT), Azure Search, Cosmos DB, ADLS (Blob) and Azure Functions, secured via Azure Virtual Network and Managed Identity for enterprise, serving thousands of end users
- ❖ Develop an AI agentic system for native automation, Azure DevOps workflows, Azure service provisioning, data model creation, and end-to-end pipeline & data analysis, with a self-evolution mechanism that enhances pattern recognition and continuously improves AI driven task automation

Software Data Operation Engineering

July 2022 - October 2023

- ❖ Developed AI solutions using open-source technologies, leveraging LLMs from Hugging Face (Meta LLaMA 2); utilized Ray for distributed inferring, LangChain for orchestration, then built RAG pipelines on distributed GPU infrastructure for internal adoption
- ❖ Conducted PoCs, MVPs frequently to create demos specializing in Azure cloud, showcasing the potential and capabilities
- ❖ Drive Agile and SDLC, implementing CI/CD, sprint planning, and backlog to accelerate application development and deployment

System Engineering

February 2022 - July 2022

- ❖ Led IT department's training on secure Azure cloud service development, upskilling teams and strengthening security awareness
- ❖ Owned Azure management group operations across multiple subscriptions, facilitating cloud services for 1,500+ engineers
- ❖ Developed automation services using Microsoft Power Apps and Power Automate, achieving 90%+ automation for IT system

University of Washington | Teaching Assistant

February 2022 - July 2022

- ❖ Facilitated mentorship for 150+ students to effectively navigate fundamental & intermediate programming concepts
- ❖ Delivered comprehensive introduction to undergraduate students on computational concepts, object-oriented programming, operating system, grading assignments, help students understand these subjects

University of Washington - Intern | Software Development in Test

July 2021 - September 2021

- ❖ Implemented Python Django's Unit test, and smoke, integration, system test using scripting to execute automation tests
- ❖ Validated APIs with Postman, enabling integration & functionality across different services
- ❖ Configured and administered secure databases for over 3000+ user accounts, utilizing SQL to ensure secure storage & access

SKILLS

Programming Languages: Python, Java, SQL, C/C++, JavaScript

Databases: SQL, NoSQL, Azure CosmosDB, Azure Data Lake Storage (ADLS, Blob), AWS DynamoDB, AWS S3

Cloud Technology & DevOps: Azure, AWS, Docker, YAML, Bash, PowerShell, Git

Data & ML Framework: Agents, Copilot, MLflow, Langchain, HuggingFace, PyTorch, FAISS, vLLM, CrewAI, LlamaIndex, PEFT

Software Development: Agile, Visual Studio, APIs, Postman, Ubuntu, System Analysis, Unit Testing, Debug, RESTful APIs, EKS, Maven

PROJECTS

Stock Analyst - AI Agentic System

January 2026 - April 2026

- ❖ Built an AI agent system with 3 specialized Copilot agents and 13 auto-matched skills that generates 20-section interactive HTML stock reports from live Alpha Vantage market data
- ❖ Built a Python quantitative pipeline with 4 predictive models, trend-break, correction risk, event simulation, and stock classification, fully developed and orchestrated by AI agents

Private Generative AI with Your Own Data - Web Application

August 2023 - October 2023

- ❖ Utilized the open-source Llama2 model from HuggingFace Hub, incorporating BitandByte for efficient model quantization
- ❖ Integrated HuggingFace's Transformer pipeline for text-generation tasks, ensuring high-quality, contextually relevant outputs
- ❖ Integrated diverse models such as an instruct embedding model for semantic search in FAISS vector databases
- ❖ Employed LangChain for seamless integration, enabling sophisticated interaction of the AI model with private data

Cheapest Groceries - Web Application

February 2022 - May 2022

- ❖ Developed an web-application to find the cheapest grocery item nearby by inputting zip code
- ❖ Developed a search and sort feature that allows users to save money by finding the best grocery prices in their local area
- ❖ Collaborated with a team to apply Agile development methodology and develop user stories for a cutting-edge system
- ❖ Designed REST APIs by leveraging provided API specifications and deploying them through AWS Gateway
- ❖ Implemented micro-features and integrated AWS Lambda (serverless) for enhanced functionality
- ❖ Deployed all source codes and related resources on AWS for optimal scalability and availability

PROFESSIONAL CERTIFICATIONS

- ❖ [Azure Solutions Architect Expert](#) (AZ-304): Gained expertise in designing secure, scalable Azure solutions, including cloud application, infrastructure, data storage, and identity
- ❖ [Azure AI Fundamentals](#) (AI-900): Gained knowledge of AI in Azure, including machine learning, computer vision, LLM, NLP, and generative AI
- ❖ [Azure Fabric Analytics Engineer Associate](#) (DP-600): Gained expertise in designing Data Warehouses, Lake Houses, OneLake, and deploying analytics solutions with Microsoft Fabric
- ❖ [Azure-104: Azure Administrator](#) (AZ-104): Gained expertise in Azure administration, managing identities, storage, compute, networking, and resource optimization
- ❖ [Microsoft 365](#) (MS-900): Gained knowledge of Microsoft 365, including concepts, apps, services, security, compliance, trust

LEADERSHIP & VOLUNTEERS

University of Washington | Student Engagement - Husky Leadership

January 2021- June 2021

- ❖ Gained hands-on experience with leadership styles and team management through practical activities. Organized a mentorship program, pairing over 15 mentor-mentee teams, showcasing strong communication and relationship-building skills. Experience in the value of teamwork, collaboration, and community involvement in fostering a positive work environment

Camp Korey | Ambassador

June 2020 - December 2020

- ❖ As a Camp Korey ambassador, organized data to support fundraising for children's programs and contributed to event planning and team collaboration, enhancing the lives of young individuals in Bellingham, WA

HONORS & AWARDS

University of Washington | Certificate of High Scholarship

- ❖ Recognized on the Annual Dean's List for consistent academic excellence, demonstrating strong dedication, analytical, and problem-solving skills contributing to technical and collaborative success
- ❖ Baccalaureate honors (Cum Laude), top 6.5% of 2022 class. Maintain well academic performance in every quarter

University of Washington | Study Abroad Scholarship

- ❖ In the summer of 2021, I was awarded the UW Study Abroad Scholarship based on my academic and personal achievements, which enabled me to participate fully in the VI Virtual Internships program. Demonstrates adaptability and cultural awareness, valuable for teamwork in diverse, cross-functional settings