TONY WANGDU

LEAD SOFTWARE ENGINEER / SENIOR FULL-STACK ENGINEER

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PROFESSIONAL PROFILE

Full-stack software engineer with 10+ years of experience building scalable, production-grade web applications serving thousands of users. Frontend depth in React and modern JavaScript, backed by Node.js and Python expertise. Focused on clean architecture, dependable delivery, and user-centered engineering across fintech, CI/CD platforms, and enterprise tools.

PROFESSIONAL EXPERIENCE

Broadridge | Lead Software Engineer Oct 2024 – Dec 2025

Led development of full-stack systems with emphasis on backend reliability, frontend usability, and safe production deployments. Drove incident analysis and postmortems to strengthen observability and release confidence. Partnered with platform teams to evaluate AI-assisted developer workflows in production.

Series | Senior Software Engineer Apr 2023 – Apr 2024

Built enterprise applications supporting neo-banking, AP/AR, bookkeeping, and workforce management. Delivered scalable APIs and modern interfaces across complex financial workflows; executed database migrations and performance optimizations while maintaining high availability.

CircleCI | Senior Software Engineer Aug 2021 – Apr 2023

Developed backend services and internal tooling for large-scale CI/CD pipelines. Improved performance, monitoring, and reliability through incident-driven engineering, and collaborated with distributed teams on developer workflows and platform UX.

RBC | Software Engineer Sep 2017 – Aug 2021

Built microservices and Angular applications supporting approximately 90% of daily application volume and reducing processing time by 95%. Delivered REST APIs with unit, integration, and contract tests; built dashboards for CI/CD and operational health.

TECHNICAL EXPERTISE

Full-stack & architecture React, Next.js, Vue.js, Angular; Node.js, Express, NestJS; Python, FastAPI, Django; REST, GraphQL, microservices; high-throughput, low-latency AI services

AI & machine learning LLMs (OpenAI, Gemini, Claude, Llama); RAG, Graph RAG, LangChain, LangGraph, LlamaIndex; embeddings, PGVector, Pinecone; fine-tuning, RLHF, quantization, inference optimization; prompt engineering, evaluations; computer vision, time-series forecasting, recommendation systems

Cloud, data & DevOps AWS, Azure, GCP; Docker, Kubernetes, Terraform; GitHub Actions, GitLab CI; Spark, Flink, Kafka; MySQL, PostgreSQL, AWS RDS, Supabase; MongoDB, DynamoDB, Cosmos DB, Redis

Languages JavaScript, TypeScript, Python, SQL, C/C++, C#/.NET, Java, Rust

EDUCATION & CERTIFICATIONS

Bachelor of Engineering (B.E.), Computer Engineering | Memorial University, Newfoundland and Labrador | 2012–2016

AWS Certified Developer • freeCodeCamp Front End Development Certification