

Long Nguyen

Software Engineer

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Portfolio: longnguyen-vhoang.vercel.app

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript/TypeScript, Java, Kotlin, C#, Golang, SQL
- **Backend:** REST APIs, Spring Boot, Node.js, Flask, AWS (EC2, S3, DynamoDB, etc), Docker, Kubernetes, FastAPI
- **Frontend:** React, Next.js, Tailwind CSS, WebGL, Three.js
- **Databases:** MongoDB, PostgreSQL, Azure SQL, ElasticSearch
- **Tools:** Git, Jenkins, Kafka, Figma, Selenium, Jest, TensorFlow, GCP, OpenCV, PyTorch

WORK EXPERIENCE

Intuit Canada

Toronto, ON

Software Engineer (Contract Full-time)

Aug 2024 – Feb 2025

- Working full stack for Intuit TurboTax, QuickBooks – Pro Tax, ProFile software tax using React.js, Java, and C#.
- Developed support internal tools in Python, Typescript, JavaScript, C#, and shell script, increasing team performance.
- Optimized CI/CD pipelines for ProFile, ProTax using **Jenkins and GitHub Actions**, reducing deployment errors by 30%.
- Collaborated with QA, tax analysts in **Scrum team** to launch new features and a back-end system for 100K+ ProTax users.

DXC Technology

Toronto, ON

Fullstack Developer (internship)

Apr 2023 – Apr 2024

- Built a **Spring Boot** for a patient symptom-tracking app, improving data migration efficiency by 20% and supporting 500+ daily active users.
- Reduced system downtime by 15% by resolving 20+ critical bugs during **CI/CD pipeline** overhauls using Jenkins and Docker.
- Designed a scalable PostgreSQL database schema to store patient health records, ensuring HIPAA compliance.
- Iterated platform for patients, collaborating with a group of 5 engineers to create features across the software.

Ministry of Children Community and Social Services Ontario

Toronto, ON

Software Engineer in Test (internship)

Jan 2022 – Aug 2022

- Automated testing for a family violence court platform using **Selenium and UFT**, working on 80-150 failed test cases by monthly in a group of 5 internship students.
- Improved page speed by 15% by optimizing SQL queries and implementing caching logic in Spring Boot.

RELATIVE PROJECTS

Portfolio – Next.js/ReactJS, TypeScript, Three.js, TailwindCSS, MongoDB, Framer Motion, Express, WebGL

- Increased average session duration by 50% via optimized 3D rendering with **WebGL/Three.js**. Updating data from MongoDB (noSQL) APIs.

ChatGPT Local – Next.js/ReactJS, TailwindCSS, MongoDB, Pusher, TypeScript, Shadcn UI, Python, LLM, Llama_cpp_python

- Developed a private **AI chat application** using a locally hosted Llama-2 model, reducing third-party data risks by 100%.
- Built a scalable backend with **Python/Flask** and **AWS EC2**, handling 50+ concurrent users with < 500ms response times.

Crypto Machine Learning trading – Python, Flask, Plotly, mplfinance, Pandas, AWS EC2, scikit-learn, TensorFlow

- Trained an **LSTM model (TensorFlow)** on historical BTC/USD data, achieving 20% ROI in simulated trading.
- Deployed a **Flask API** on **AWS EC2** to serve real-time predictions.

Fragment Upload – AWS, JavaScript, S3 Bucket, EC2, DynamoDB, Docker, GitHub Workflow

- Engineered a Google Drive-like file upload system using AWS multi-part uploads, reducing large-file upload time by 40%.
- Containerized the app with Docker and automated deployments via GitHub Actions.

EDUCATION

Honours Bachelor of Technology – Software Development (Computer Science)

Seneca Polytechnic (Graduated), Toronto, ON

AWS Certified Developer – Associate (In Progress)