ALEX DO

Results-driven Software Engineer with proven expertise in full-stack development, distributed systems, and automation. Demonstrated track record of increasing efficiency and delivering high-impact solutions. Strong focus on documentation and technical communication.

WORK EXPERIENCE

Software Engineer

TD Bank - Credit Origination and Funding | Toronto, ON / Remote | June 2023 - Present

- **Achieved 70% reduction** in local application deploy time from 63s to 19.5s through build/deploy process optimization and implementation of virtualized Linux development setup using Java, Javascript, HTML, CSS, Maven, Python, Shell scripting
- Identified and proposed solution to **resolve 4 million monthly application errors** utilizing automated reporting, debugging, delegation, industry logging practices
- Led successful application migrations across multiple environments (from DEV to PROD) for API service handling 500,000+ daily requests following CI/CD strategies
- Developed features for distributed system serving ~100,000 bank employees at 1060 branch locations for credit application processing and adjudication of 26 million users
- Received **Code Green Award** for secure coding, efficient automation, app compliance, sensitive data handling (December 2024)
- Earned **Above and Beyond Awards x2** for acting like an owner, thinking like a customer, executing with speed, innovating with purpose, developing other colleagues, and technical excellence (April & July 2024)

Software Engineer / Developer

TD Bank - Business Banking | Toronto, ON / Remote | September 2021 - May 2022

- Optimized local virtualized developer environment by **reducing image size by 80%** from 10GB to 2GB, reduced the developer workspace onboarding time from **5 days to 1 day**
- Coordinated cross-team deployments of Java CRM pricing web application for business banking customers, driving $25.5 billion revenue in 2021 using Jenkins, CI/CD pipelines
- Developed Java solutions, with JUnit test coverage for application improvements leveraging knowledge of SQL, Shell, Python, and Javascript
- Mentored Senior Developers on application deployment and environment setup

Co-Founder & Software Engineer

Starty - Founder Networking Platform | Waterloo, ON | July 2021 - November 2022

- Led 4-person team to develop platform reaching 300+ registered students with React, PostgresSQL, Node.js
- Developed business plan through market research, conducted user interviews with 150+ people, secured seed funding, iterated on MVP to meet stakeholder expectations

Junior iOS Software Developer

SoCast - Digital Content Management Systems | Toronto, ON / Remote | January 2021 - April 2021

- **Achieved 62% bug reduction** in iOS mobile app contributing to $2M+ annual revenue generation over 4 months
- **Launched Apple CarPlay feature** for digital growth CMS application customized for 2000+ radio stations that served 40 million ad impressions via web and mobile
- Created comprehensive debugging documentation for future developers

Junior Web Software Developer

SoCast | Toronto, ON / Remote | May 2020 - August 2020

- **Achieved 90% reduction** in web application bugs for issues related to ElasticSearch, RSS feed syndication, CRON jobs, and more
- Developed Wordpress commands for efficient MySQL database management
- Implemented frontend and backend solutions using PHP, JS, HTML, CSS, and SQL

NOTABLE PROJECTS

CONTACT

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- alexdo.dev
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SKILLS

Technical Stack

- Javascript|jQuery
- React|Next|Node
- HTML|CSS|SASS
- Java|SpringBoot|Maven
- Python|Flask|Selenium
- Swift|C|Rust|UIKit
- MySQL|Postgres|MongoDB|Oracle SQL
- Git|Jira|Confluence

Development|Architecture

- Frontend Development
- Backend Development
- Full Stack Development
- Web Development
- Mobile Development
- Software Architecture
- Microservices
- API Design
- Database Management
- Cloud Infrastructure
- CI/CD Implementation
- Agile|Scrum

Core Engineering

- Computer Programming
- Data Structures | Algorithms
- Object-Oriented Programming
- Software Testing
- Debugging
- Distributed Systems
- Performance Optimization
- Security Implementation

Languages

- English (Native)
- French (Limited)
- Cantonese (Beginner)

EDUCATION

ArtistRadars for Sony Music - Full Stack Engineer - Artist Discovery Engine (August 2024)

- **Reduced Spotify talent scout effort for A&Rs by 95%** from 300 mins to 15 mins daily with real-time artist discovery engine using React, Javascript, PostgreSQL, Python, Flask
- Integrated Spotify API for playlist data analysis with key metrics
- Implemented secure OAuth2.0 PKCE authentication system

ContentCatalyst - Backend Engineer - Automated Social Marketing Engine (January 2023)

- Developed automated video content processing system using Python and Shell scripting
- Integrated with Reddit API for content distribution
- Implemented OpenAI library for video processing

Crypto Alert - Backend Engineer - High-Frequency Data Processing and Automated Response System (July 2021)

- Built using Python, Amazon Web Services, Kucoin API, Binance API, Telegram
- Developed data processing and automated response system to efficiently scrape web data for fundamental indicators of crypto price movement, bypassing various layers of caching for low latency data retrieval
- Built low-latency application to ingest, analyze, and act on time-sensitive information, triggering web requests to Binance cryptocurrency exchange API
- Developed notification system integrating with Telegram API

SprintU - Full Stack Software Engineer - High-Frequency Data Processing and Automated Response System (December 2020)

- Built using HTML, CSS, Javascript, Node.js, MongoDB
- Created a web software development tool featuring shared projects that allows teams to plan their projects using a customizable backlog and kanban board

Campground Management Website - Full Stack Software Engineer (December 2019)

- Built using HTML, CSS, Javascript, Node.js, MongoDB
- Used RESTFUL routing, Express framework, MongoDB, Node.js, Javascript, Bootstrap to setup backend and frontend of website, storing campgrounds into database

- **Honours Bachelor of Computer Science (BSc)** at Wilfrid Laurier University|Waterloo, ON | 2018 - 2023

CERTIFICATIONS

- **Microsoft AZ900** - Azure Fundamentals (2024)
- **Web Developer Bootcamp**, Udemy (2020)