SY TRAN DUNG

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PROFILE SUMMARY

I am a software engineer skilled with a strong foundation in **Data Structure** and **Algorithms**. I specialized in designing and building web and applications using **JavaScript/TypeScript** and **Python**. My passion for programming extends beyond professional work, as I enjoy tackling challenging projects in other programming languages.

TECHNICAL SKILLS

- **Languages:** Javascript, Typescript, Python, Go, C/C++, Bash
- **Frameworks:** ExpressJS, Fastify, Flask, FastAPI, Gin, ReactJS
- **Databases:** Postgres, MySQL, BigQuery, Redshift
- **Clouds:** GCP, AWS
- **Tools:** Git, Terraform, NeoVim, Docker
- **Operating systems:** Linux, MacOS
- **Testings:** jest, playwright, detox, pytest

EXPERIENCE

Investy.ai – *Software Engineer*   July 2022 – Present
- ❖ **Project:** *Investy.ai*
  Investy.ai is a digital investment advisory platform that provides users with the tools and resources necessary to make informed decisions in the cryptocurrency market.
- ❖ **Key responsibilities:**
  - ➢ Developed the **core trading engine** to execute and track orders events on Binance and OKX spot exchanges, handling thousands of transactions per day.
  - ➢ **Assisted in designing** and **developed** backend APIs using **FastAPI/ExpressJS** frameworks, handling 95% requests under 500ms.
  - ➢ Ensure code quality by writing comprehensive **unit tests** and **integration tests**.
  - ➢ Cooperated with Quantitative researchers to develop a **strategy backtest system**.
  - ➢ Converted **trading strategies** from researching notebooks to production ready services, increase in strategy deployment efficiency.
  - ➢ Set up **CI/CD** workflows using **Github actions** and **GCP cloud build.**
  - ➢ Set up a **monitoring system** including metric tracking and notification with **Prometheus** and **Grafana**.

NAB Innovation Centre Vietnam – *Senior Software Engineer*   Nov 2021 – July 2022
- ❖ **Project:** CIB
  CIB is a management system for bankers serving corporate and institutional clients.
- ❖ **Key responsibilities:**
  - ➢ Developed an internal web application using **ReactJS** and **ExperssJS**.
  - ➢ Led other junior members in the team by conducting **sprint planning** and **code review**.
  - ➢ Conducted **technical sharing** about the **V8 engine**.
  - ➢ Coordinated and discussed system design decisions with stakeholders in Australia and Vietnam.
  - ➢ Applied **profiling** techniques to improve a low performance endpoint down to under a second.

Nashtech
- ❖ **Project:** Unified platform – *Senior software engineer, team leader*   2018-2021
  Unified is the social media services provider company in the social advertising ecosystem.
  - ➢ Led the team of 3 members in Vietnam to work with colleagues in the US.
  - ➢ Maintained and Optimized the Ads campaign management system.

➢ Processed ads events through a data pipeline using Kafka.
➢ Develop a web application and Backend APIs using **ReactJS**, **Go** and **NodeJS**.

❖ **Project:** Tabcorp console – *Senior software engineer, team leader*   2017-2018
The Tabcorp console is a dedicated display that provides real-time updates of racing results.
➢ Met with clients to understand their needs.
➢ Planned development tasks, and reviewed code to ensure quality and alignment.
➢ Rewrite legacy racing console application to **ReactJS**.

● **Loan market** – *Software engineer*   2016-2017
o   Developed frontend web application for lending using ReactJS.

CERTIFICATIONS

Certification of completion: Big-O Blue and Orange Level   June 2019
Certified by Big-O Coding Algorithm Center
Intermediate and Advanced algorithms courses improve Algorithmic programming techniques with knowledge
of Mathematics, Dynamic Programming, and Segment Trees and problem solving.

JSNAD: OpenJS Node.js Application Developer   May 2022
Issued by The Linux Foundation
Earners of this designation demonstrated the skills and expertise to competently use Node.js to create
applications of any kind, with a focus on knowledge of Node.js core APIs.

JSNSD: OpenJS Node.js Services Developer   March 2024
Issued by The Linux Foundation
Earners of this designation demonstrated the skills and expertise to competently create RESTful Node.js
Servers and Services (or Microservices) with a particular emphasis on security practices.

LFD121: Developing Secure Software   March 2025
Issued by The Linux Foundation
Developing Secure Software systems that are much harder to successfully attack, reduce the damage when
attacks are successful, and speed up the response so that any latent vulnerabilities can be rapidly repaired.

Generative AI for Software Developers   April 2025
Issued by Microsoft
Introduction to Generative AI for Developers With Copilot
Optimizing Development Workflow with GitHub Copilot and VS Code

EDUCATION

B.S in Computer Science, Coursework completed   May 2016
Ho Chi Minh University of Science
Bronze medal at the university-level informatics olympiad - 2014

OPENSOURCE CONTRIBUTIONS

I am a strong believer in open-source software and am always eager to contribute more to the global developer community.
I have made numerous small contributions to libraries I've used in my work, including:
● React - Fixed React Devtools build configuration warning messages.
● Platformatic - Updated Ollama Provider to self host AI chat model.
● Ssh-chat - Added build configuration for darwin-arm64 target.
● And others…