

# Thao Vo

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Espoo, 02630, Finland

## EDUCATION

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### • Aalto University

*Master in Computer Science*

Espoo, Finland

- Merit Scholarship: 100%
- GPA: 4.34/5
- Relevant Courseworks: Programming Parallel Computers, Software Architecture, Designing and Building Scalable Web Applications D, Information Security, Network Security, Principles of Product Management, Machine Learning in Financial Risk Management D.

### • University of Science VNU-HCM

*Honor Bachelor in Information Technology*

Ho Chi Minh, Vietnam

- Grade: 3.8/4 (Top 10%)
- Merit Scholarship
- Relevant Courseworks: Introduction to Programming, Object Oriented Programming, Data Structure and Algorithm, Software Architecture, Artificial Intelligence, Complexity Analysis.

## EXPERIENCE

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### • NAVER

September 2023 - August 2024

*Software Developer*

- NWallet app:
  - \* Delivered personal online wallet for the management of vouchers and coupons in iOS application.
  - \* Delivered voucher/user management, authentication, and notification services for NWallet with focus on scalable back-end logic.
  - \* Implemented and built MVVM architecture across the project, enhancing code maintainability and reducing debugging time
- Tune App: Resolved QA/client issues and implemented unit tests to increase stability and coverage.

### • Cho Tot

March 2023 - August 2023

*iOS Developer Intern*

- Optimized Home Screen, reduced loading time to 50%.
- Enhance codebase with Clean Architecture to improve modularity and long-term maintainability.
- Enhanced Chat SDK, built testing pipeline, and improve messaging reliability.

### • Aalto University

September 2025

*Teaching Assistant*

- Assisted in teaching core algorithmic paradigms: divide-and-conquer, greedy algorithms, and dynamic programming.
- Guided students in formally proving the correctness of algorithms and analyzing their computational efficiency.
- Designed and graded problem sets involving algorithm design, randomization, and complexity analysis.

## PROJECTS

### • DEBS - Detecting-Trading-Trends-in-Financial-Tick-Data

2025

Tools: Python, Apache Kafka, Apache Flink, TimescaleDB (PostgreSQL), Streamlit, Docker



- Built a real-time financial tick analytics platform.
- Data flow: CSV → Kafka topic tick-data → Flink 5-minute tumbling windows (last tick per window) → EMA38/EMA100 computation → TimescaleDB → breakout-pattern detection → Kafka breakout-pattern alerts → Streamlit dashboard.
- Infrastructure: 8-container Docker Compose stack with health checks; one-shot DB migrator running idempotent SQL on startup; env-driven config.
- Scale/impact: backfilled 25+ GB of historical tick data (multiple trading days); dashboard updates every 1s; supports multi-symbol querying with UTC-corrected time series.
- Deliverables: interactive Streamlit charts (last, EMA38, EMA100), searchable symbols, alert channel for breakouts, optimized time-series schema and indices.
- Keywords: Python, Kafka, Flink (windowing, stateful streaming), TimescaleDB, SQL, Streamlit, Altair, Docker, ETL/stream processing, event-driven architecture.

### • Scalable E-commerce platform

2025

Tools: Spring Boot, PostgreSQL, Docker, Redis, RESTful API, API Gateway



- Implemented core microservices including user authentication, product catalog, shopping cart, order processing, and notifications.
- Designed API Gateway for routing requests and enabling seamless communication between microservices.
- Containerized microservices with Docker and managed multi-container applications using Docker Compose.

### • Simple Bank: Backend for a simple bank application

2024

Tools: Golang, PostgreSQL, Docker, Redis, RESTful API, gRPC



- Provided RESTful API and gRPC API for creating and managing bank accounts, recording all balance changes to each of the accounts and performing a money transfer between 2 accounts.
- Built with Docker and deployed to AWS.
- Main features: authentication for user, and secure the APIs with JWT and PASETO.
- Wrote unit tests and error handling.

### • Online Newspaper: Website for the online newspaper

2023

Tools: HTML, CSS, JavaScript, NodeJS, Express.js, PostgreSQL.



- Web page to read online newspaper, post new articles, leave a comment and many other features.

## PUBLICATIONS

- 2024 **PGDS: Pose-Guidance Deep Supervision for Mitigating Clothes-Changing in Person Re-Identification.** In AVSS 2024 - Oral Rank B
- 2024 **KDAS: Knowledge Distillation via Attention Supervision Framework for Polyp Segmentation.** In ICME 2024 - Oral Rank A
- 2024 **Pose Knowledge distill guidance: Effective Pose guide learning for Person Re-Identification.** In KES 2024 - Oral Rank B

## SKILLS

- **Programming Languages:** Java, Golang, Swift, C/C++, Python, JavaScript
- **TechStacks** Cuda, Deno, Hono, Kafka, PostgreSQL, MongoDB, Redis, Docker, NodeJS, ExpressJS, ReactJS, React Native, Flask, Socket, UIKit, SwiftUI, Pytorch, Tensorflow, OpenCV

## HONORS AND AWARDS

- **Ninety Eight Future Builders Scholarships** 2024  
*Ninety Eight*
- **Top 10% Google Code Jam I/O for Women** 2022  
*Google Code Jam*
- **Second Prize, Nghe An Province Olympiads in Informatics** 2019  
*Nghe An, Vietnam*