Dang Minh Hoang

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Experiences

Software Engineer Intern, Anduin Transaction – HCMC, Vietnam | Mar. 2023 - Aug. 2023

- Developed the automated pipeline for extracting information from hard copy documents and matching with templates, resulted in a significant reduction in processing time of hundred-page documents to **(within a few minutes)**. The pipeline achieved **80% accuracy** on the pilot testing dataset. This pipeline **provides a foundation** for [Anduin's Data Extraction Service](#)
- Developed a documents management tool, one of the core features of Anduin's Investor Access product. Engineered the audit logs for tracking the activities and collaborations within the features. **Delivered the MVP** and iteratively updated based on pilot-testing feedback.
- **Tech Stack**: Scala.js (React and Laminar), Scala ZIO, ProtoBuf, GraphQL, FoundationDB, Temporal.io

Co-founder & Mobile Developer, Luveri – Daejeon, Korea | Apr. 2021 - Dec. 2022

- Co-founded the startup, collaborated with other co-founders to formalize the business and state the vision and mission of Luveri. Achieved **500.000+** accumulated downloads on both Google Play and App Store
- In charged of **implementing 4 main features** interface, including Timeline, Calendar, Home page, Note/Diary, and collaborated on Chat & Gallery. The most-loved feature Home Page achieved **50% users retention rate**.
- Integrated local database for Setting & Notification features that **reduced cloud's monthly cost by 7%**
- **Tech Stack**: Flutter/Dart, Firebase, Isar/Hive.

Software Engineer Intern, OnSquare Inc. – Seoul, Korea | Jun. 2022 - Aug. 2022

- Optimized the UI render with lazy loading mechanisms for different view types such as table, grid, canvas, and documents. This helps smoothening the render process of a document **with tens of thousands components**
- Ensured the lazy loading mechanism was compatible with current draggable sorting and searching features.
- **Tech Stack**: Typescript, Re:dom.

Undergraduate Research Intern, IC Lab – Daejeon, Korea | Jun. 2024 - Nov. 2024

- Systematically evaluated the Small Language Models (SLMs) < 2B parameters on mental health text analysis. Fine-tuned SLMs to achieve on-par performance with zero-shot ChatGPT. The [report](#) is publicly available.
- Measured and analyzed the impact of quantization on performance and efficiency, including performance reduction, memory footprint, processing and generating throughputs on Raspberry Pi 5 with GGUF.
- **Tech Stack**: Pytorch, Huggingface, Unix

Undergraduate Research Intern, CDSN Lab – Daejeon, Korea | Jan 2024 - Feb 2024

- Studied the performance of different Vision Transformer embedding patch sizes using the 2022 AICC traffic camera dataset. Engineered the fine-tuning and evaluation pipeline for car detection only and sparse evaluation.
- Optimized the evaluation processing times **12x faster** with multiprocessing and pre-filtering.
- **Tech Stack**: Pytorch, Multiprocessing, Unix.

Education

KAIST - Korea Advanced Institute of Science and Technology | Aug. 2020 - Dec. 2024
- BS in Computer Science, double major in Business & Technology Management

Awards

High Honorable Award, ICPC Seoul Regional 2024: **#17/88** | 2024
3rd Prize, VNU Informatics Olympiads for High school students: **#13/35** | 2017

Technologies Skills

Concepts: OOP, Data Structure and Algorithm, Machine Learning
Programming Languages: C++, Python, Scala, Flutter/Dart, Javascript/Typescript, Java, SQL, HTML, CSS
Natural Languages: Vietnamese (native), English (proficient), Korean (beginner)