Ngo Phu Chien

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EDUCATION

- **University of Science - VNUHCM** — Ho Chi Minh City, Vietnam
  Bachelor of Science in Software Engineering; GPA: 3.43 (8.59/10) — *Aug. 2019 – Sep. 2023*

EXPERIENCE

- **MoMo** — Ho Chi Minh City, Vietnam
  Software Engineer — *Sep 2023 - Present*
  - **Tensorflow**: TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
  - **Apache Beam**: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.

- **MoMo** — Ho Chi Minh City, Vietnam
  Junior Software Engineer — *Jun 2022 - Sep 2023*
  - **Notifications**: Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
  - **Nostos**: Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.
  - **Workflows**: Dataduct an open source workflow framework to create and manage data pipelines leveraging reusables patterns to expedite developer productivity.
  - **Data Collection**: Designed the internal survey and crowd sourcing platfowm which allowed for creating various tasks for crowd sourding or embedding surveys across the Coursera platform.
  - **Dev Environment**: Analytics environment based on docker and AWS, standardized the python and R dependencies. Wrote the core libraries that are shared by all data scientists.
  - **Data Warehousing**: Setup, schema design and management of Amazon Redshift. Built an internal app for access to the data using a web interface. Dataduct integration for daily ETL injection into Redshift.
  - **Recommendations**: Core service for all recommendation systems at Coursesa, currently used on the homepage and throughout the content discovery process. Worked on both offline training and online serving.
  - **Content Discovery**: Improved content discovery by building a new onboarding experience on coursera. Using this to personalize the search and browse experience. Also worked on ranking and indexing improvements.
  - **Course Dashboards**: Instructor dashboards and learner surveying tools, which helped instructors run their class better by providing data on Assignments and Learner Activity.

- **MoMo** — Ho Chi Minh City, Vietnam
  ITC Trainee (Software Engineering Intern) — *Nov 2021 - Jun 2022*
  - **Portfolio Management**: Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
  - **QuantDesk**: Python backend for a web application used by hedge fund managers for portfolio management.

PROJECTS

- **QuantSoftware Toolkit**: Open source python library for financial data analysis and machine learning for finance.
- **Github Visualization**: Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Recommendation System**: Music and Movie recommender systems using collaborative filtering on public datasets.

PROGRAMMING SKILLS

- **Languages**: Java, Kotlin, Python, JavaScript, SQL   **Technologies**: Vert.x, gRPC, Bigtable, HBase, BigQuery, Firestore, MongoDB, Cloud Pubsub, Kafka, Redis, DragonflyDB, PostgreSQL