

MINASTIK TECHNOLOGY
JOINT STOCK COMPANY

PORTFOLIOS

Core Team

2024

www.minastik.com

OUR PROJECT

- SMART VIDEO PLATFORM
- FULL POWER PROJECT MANAGEMENT
- AI CHATBOT
- CREDIT SCORING
- FINGERPRINT RECOGNITION ON SMART CHIP CARDS
- WAP INTERNAL SYSTEM
- CENHOMES REAL ESTATE PLATFORM
- REAL ESTATE VALUATION
- MANAGEMENT SOFTWARE
- MATRIXSENSE

SMART VIDEO PLATFORM

PROJECT DESCRIPTION

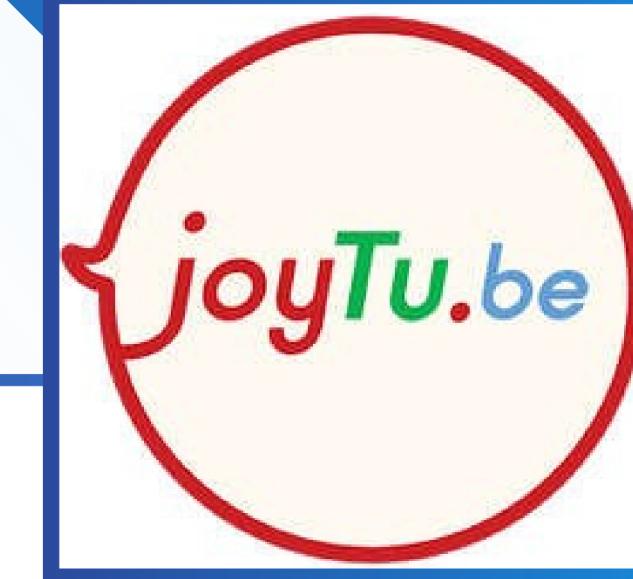
Building a smart interactive video platform:

- Allows viewers to interact with brands by direct actions on video, helping brands respond quickly and accurately to customer requests.
- Provide brands with parameters that reflect the quality of marketing channels, helping brands optimize costs and effectiveness of campaigns.

TECHNOLOGY

- Angular, NodeJS, MongoDB
- Google Firebase, AWS

OUR CLIENT



- A deep-tech startup on smart, shoppable video SaaS for PR-Marketing-Sales.
- Smart video platform technology brings many benefits: **automatic data analysis, advertising and reaching many people, enhancing user experience, reducing risks and improving safety**, studying human behavior consumers, can analyze data from videos to make strategic decisions for businesses and organizations.

FULL POWER PROJECT MANAGEMENT

1

PROJECT DESCRIPTION

- Build an information system to calculate electricity consumption for each household, manage high-voltage power outages, and daily electricity transmission flow.
- Customer care system notifies users of electricity consumption each month and reminds late payment
- Build and develop an electrical safety equipment management model applying artificial intelligence, attendance and safety inspection model for workers and electrical engineers.

2

TECHNOLOGY

- ReactJS, .NetCore, My SQL
- AWS, Python, MongoDB, Flask

OUR CLIENT



EVN HANOI

- EVN has applied the most advanced electricity safety management technologies, helping to monitor and control the power network accurately and flexibly.
- Automation systems, smart sensors and multi-dimensional data analysis are integrated, creating a safe and effective management environment.
- Help EVN have **System Security**, **Energy Saving** and **Faster Response**.

3

AI CHATBOT

1

PROJECT DESCRIPTION

- Develop Chatbot that automatically answers questions.
- Develop AI Chatbot that integrates Chat GPT into answering questions.

2

TECHNOLOGY

- Python, Angular, NestJS



OUR CLIENT

- Eschool International School
- Having study courses according to the Oxford and Cambridge Programs.
- 800 students per year.



- Dynamic Vietnamese connection
- Offers courses in Sensory Processing Disorders.
- 400 students per year.
- 10,000 parents contact each year.

4

CREDIT SCORING

PROJECT DESCRIPTION

- Analyze and process customer data
- Develop and deploy AI algorithms to automatically calculate personal credit scores
- Successfully raised \$3 million in capital from Belt Road Capital Management fund

TECHNOLOGY

- Flask, Python

OUR CLIENT



- TIMA is the largest and most prestigious financial connection platform in Vietnam, in operation since 2015 as the first provider of peer-to-peer lending technology platform (P2P Lending) in Vietnam.
- Credit Scoring technology has helped TIMA **effectively manage costs, increase competitiveness and reduce risks** when borrowing capital, encouraging people to be responsible with their financial resources.

FINGERPRINT RECOGNITION ON SMART CHIP CARDS

PROJECT DESCRIPTION

- Develop an algorithm to recognize fingerprints on cards
- The algorithm ranked 5th (in the FMR10000 ranking) in the Fingerprint Verification Competition

TECHNOLOGY

- C/C++

OUR CLIENT



- MK Group is currently 1 of 6 companies in the world that owns core technology for electronic citizen identification and electronic passports.
- Fingerprint Recognition Technology on Smart Chip Cards brings many benefits: simplicity and convenience, easy integration, **effective access management, reduced risk of fraud, high security, reduced management costs password.**

WAP INTERNAL SYSTEM

PROJECT DESCRIPTION

Converting business numbers:

- Developing task management software and agency connections for businesses
- Developing financial management software for businesses.

TECHNOLOGY

- Angular, NestJS, PostgreSQL, AWS, Gitlab.

OUR CLIENT



- The company specializes in providing high-end and comprehensive examination and treatment services in Japan for Vietnamese units and individuals.
- Revenue: 5 million USD/year

MATRIXSENSE

PROJECT DESCRIPTION

- Multi-channel message management software.
- Customer relationship management software.
- Develop automatic chatbots.

TECHNOLOGY

- Angular, MeteoJS, MongoDB, AWS, Gitlab.

OUR CLIENT



MatrixForce

- Hong Kong start-up company in the technology field
- Partners: Louis Vuitton, Tiffany & Co, Blue Insurance,...

CENHOMES REAL ESTATE PLATFORM

PROJECT DESCRIPTION

Build a real estate business foundation:

- Build system architecture
- Select technology solutions, and integrate into the platform
- Deploying specific business problems
- System operations and administration.

OUR CLIENT



- Century Real Estate Joint Stock Company
- With its experience, Cen Land will provide investment capital for potential projects, contributing to creating the best real estate service ecosystem to serve Vietnamese consumers.

REAL ESTATE VALUATION

1

PROJECT DESCRIPTION

Apply artificial intelligence (AI) in real estate valuation.

- Building a real estate data collection system
- Convert the system to the cloud, and use the services of the Amazon Web Services (AWS) platform.

2

TECHNOLOGY

- AWS, Python

OUR CLIENT



CEN LAND
the real services

- Century Real Estate Joint Stock Company
- With its experience, Cen Land will provide investment capital for potential projects, contributing to creating the best real estate service ecosystem to serve Vietnamese consumers.

MANAGEMENT SOFTWARE

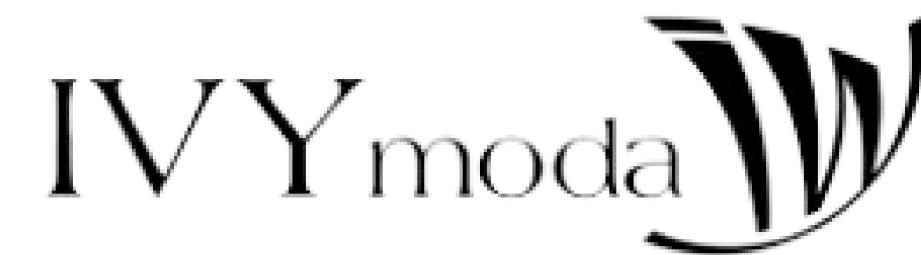
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TECHNOLOGY

- ExtJS, Java Spring, PostgreSQL.

OUR CLIENT



SIEMENS

11

OUR TEAM



OUR TEAM

DUONG TAN NGHIA

SUMMARY

- Worked in Agile team which applies SAFe framework for 5 years as back-end developer and 2 years as front-end developer.
- Built scalable and responsive web applications by using JavaSpring, Hibernate, JPA, Kafka, and Angular.

SKILL

Programming language

Framework

Database

Source Control

Matlab, C/C++, Python, JavaScript

Tensorflow, Pytorch, Numpy, Pandas, Matplotlib, OpenCV, Angular,...

MongoDB, MySQL,...

Github
Gitlab

EDUCATION

HANOI UNIVERSITY OF
SCIENCE AND
TECHNOLOGY

Doctor
of Philosophy

EXPERIENCE

DUONG TAN NGHIA

1

Fingerprint Recognition on Smartcard

- Team size: 5 - Technology: C/C++
- Position: Developer
- Responsibility: Algorithm developer for fingerprint matching-on-card; Develop fixed-point algorithm for implementation on card; Algorithm ranks 5th (at FMR10000 leader board) in Fingerprint Verification Competition-onGoing.

2

Implement fingerprint matching algorithms on low-memory devices

- Team size: 5 - Technology: C/C++
- Position: Project Owner
- Responsibility: Develop fixed-point algorithm for low-memory devices; Implement algorithm on Smartcard.

3

Build an AI model for customer credit scoring in P2P lending platform

- Team size: 3 - Technology: Flask, Python
- Position: Project Leader
- Responsibility: Analysis and process profile data of borrowing customers; Develop ML algorithms credit scoring; Implement an AI model based on Machine Learning algorithms; Raise 3,000,000 US dollars (series B) from Belt Road Capital Management

4

ACM RecSys Challenge 2018

- Team size: 5 - Position: Team Leader
- Technology: Python, Pandas, Tensorflow,...
- Responsibility: Suggest appropriate songs to add to a playlist; BKAI team ranks 17th at main track leader board

EXPERIENCE

DUONG TAN NGHIA

Develop an interactive video platform - joyTu.be

5

- Team size: 5
- Technology: Angular, NodeJS, MongoDB, Google Firebase, AWS
- Position: Team Leader
- Responsibility:

Develop frontend and backend for joyTu.be

Deploy joyTu.be into Amazon Web Service

Winner of Singapore Tourism Challenge (2019)

Provide services for Ivy Moda, HP, LeMedia, LeBros, Standard Chartered Bank Vietnam.

6

AI in safety management for EVN Hanoi

- Team size: 6
- Technology: Python, MongoDB, MXNet, Tensorflow, ReactJS, Flask
- Position: Team Leader
- Responsibility:

Implement an OCR system to detect and recognize Vietnamese accent marks from images using Pytorch and exposing via Flask Rest API.

Develop a Face Recognition and Verification roll-call system using MXNet, Tensorflow.

Program a roll-call web application for end-users using ReactJS and Flask.



OUR TEAM

NGUYEN TRAN HUNG

SUMMARY

- 15 years experience in C#.NET, ASP.NET
- 6 years experience in C/C++
- 14 years experience in Java, JavaScript
- Skilled in Real-Time Operating System; Unix/Linux Application; Payment, Banking System; Database Management and Programming; Project Management

SKILL

Programming language

C#.NET, ASP.NET, C/C++, Java, JavaScript

Framework

NodeJS, NestJs, .NETCore, ExtJS, Java Spring,...

Database

MongoDB, MySQL,...

Source Control

Github
Gitlab

EDUCATION

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Specialized in Software Engineering

EXPERIENCE

NGUYEN TRAN HUNG

1

Manufacturing Execution System (MES) for DHA Garment

- Team size: 10
- Technology: Java Spring Framework; JavaScript, PostgreSQL.
- Position: Project Director/ Programmer
- Responsibility: Contract Management System (Manage garment outsourcing orders and quotations); Production Order Management; Material management system

2

Garment Production Management System for Ivy Moda Factory

- Team size: 10 - Position: Project Director
- Technology: Java Spring Framework; JavaScript, SQL Server.
- Responsibility: Material management system; Fabric check management system; Cut management system

3

Core Banking System and Digital Field Assistant Application

- Team size: 20
- Position: Project Director
- Technology: Java, Android, MySQL
- Responsibility:
Research, master and deploy, adjust MifosX - Core Banking platform for micro finance in accordance.
Construction and deployment of smartphone applications (DFA App) for credit officers.

4

GPAY E-Payment System

- Team size: 10 - Position: Project Manager
- Technology: Java J2EE, JavaScript (ExtJs), MVC Model, Database Sql Server
- Responsibility: Complete core payment solution with many type of client on WAP, Android, iOS, USSD, SMS; Implemented on Gmobile Telecommunication and MobifonePlus Jsc.

EXPERIENCE

NGUYEN TRAN HUNG

5

Smart Fashion Chain Stores Management System applies RFID UHF technology

- Team size: 20
- Technology: C#, Java, C++, Android, RFID UHF Devices, SQL Server, PostgreSQL.
- Position: Project Director/ Programmer
- Responsibility: Automated management system, applying RFID chip to all manufactured products, warehousing,... Manufacturing and deploying RFID machines and equipment.

6

Electric Bill Payment Gateway, e-Wallet system

- Team size: 10 - Position: Project Director
- Technology: Java, Payment System, ISO 8583, Oracle Database 10G
- Responsibility: Develop and Testing: Mobile payment on SIM Card in Javacard technology; Personalize Sim card; VAS Application on Mobile and SIM Card

7

Developing mobile application for Mekong Vitality Expanded project – Pact Vietnam

- Team size: 10 - Position: Project Manager
- Technology: Java J2EE, JavaScript (ExtJs), Android Studio, MVC Model, Postgre Database.
- Description: Mekong Vitality Expanded (MVE) Alliance project is a partnership between U.S. Agency for International Development (USAID), The Coca-Cola Foundation (TCCF) and Pact.
- Purpose: To develop a learning application on mobile platform for women entrepreneurs.

8

Core Wallet System

- Team size: 5 - Position: Project Manager/ System Architecture/ Programmer
- Technology: Java J2EE, JavaScript (ExtJs), MVC Model, Database SQL Server
- Responsibility: Complete core e-wallet payment solution; Bank connection for online payment transaction; Self-Service Kiosk management system



OUR TEAM

LUONG NGOC TUAN

SUMMARY

- 01 year of training programmers, teaching network system subjects
- 07 years of software development: outsourcing software to foreign countries, developing business process management software
- 03 years working in integrating Information Technology and Telecommunications systems
- 04 years of developing management systems in real estate businesses, and building real estate business foundations.
- 04 years of experience in building IT 4.0 systems in the field of Fire Prevention and Fighting.

SKILL

Programming language

C#.NET, ASP.NET, C/C++, Java, JavaScript

Framework

NodeJS, NestJs, .NETCore, ExtJS, Java Spring,...

Database

MongoDB, MySQL,...

Source Control

Github
Gitlab

EDUCATION

HANOI UNIVERSITY OF
SCIENCE AND
TECHNOLOGY

Specialized in
Electrical Engineering

EXPERIENCE

LUONG NGOC TUAN

CenHomes real estate platform

- Team size: 10
- Position: Project Director/ Programmer
- Responsibility: Build a real estate business foundation; Build system architecture; Select technology solutions, and integrate into the platform, Deploying specific business problems; System operations and administration.

MINASTIK

1

2

3

4

Real estate valuation

- Team size: 10 - Position: Project Director
- Technology: AWS, Python
- Responsibility: Apply artificial intelligence (AI) in real estate valuation; Building a real estate data collection system; Convert the system to the cloud, and use the services of the Amazon Web Services (AWS) platform.

Deploying enterprise management system (ERP)

- Team size: 20
- Position: Project Director/ Programmer
- Responsibility: Participate in choosing solutions, Coordinate standardization of business processes and digitalization of processes, Building business data analysis (BI) systems

Online storage and production system

- Team size: 10
- Position: Project Manager
- Responsibility: Set up network infrastructure, servers and workstations for online production of television programs; Optimize server, network and workstation parameters for online use.

Build a set of standard production parameters for production equipment.

EXPERIENCE

LUONG NGOC TUAN

5

TMH smart fire alarm system

- Team size: 5
- Position: Project Manager
- Responsibility: Research IT platforms in the field of IoT, multi-service system deployment models (microservices); Protocols and methods of transmitting and exchanging information in the field of IoT; Researching standards and specificities in the field of Fire Prevention and Fighting.

7

Television subscription billing and management system

- Team size: 5
- Position: Project Director
- Description: Building a mobiTV television subscription billing and management system (BSMS); Participate in choosing solutions, Build models and deploy to ensure safety and information security, Operate safe and secure systems of BSMS system.

6

AVG television transmission network

- Team size: 10
- Position: Project Director/ Programmer
- Responsibility: Building transmission network infrastructure to provide television signals from General Control to broadcasting stations nationwide; Testing and selecting equipment suppliers, Building an overall model, detailed planning of configuration at each location, scenarios and deployment standards, Making plans to ensure broadcast safety.

8

Deploy Active Directory throughout BIDV system

- Team size: 15
- Position: Project Manager
- Responsibility: Survey the current status of applications and users on the system, Collaborate with Microsoft experts to provide implementation recommendations and policies for each object (Server, PC, user,...)

EXPERIENCE

LUONG NGOC TUAN

Centralized Internet

1. Team size: 4
2. Position: Project Manager
3. Responsibility:
 - Set up a centralized Internet access system at the IT Center
 - Build a deployment model, establish a deployment process
 - Coordinate with BIDV to develop Internet access policies
 - Organize implementation and acceptance

10

Deploy servers and storage

1. Team size: 10 - Position: Project Manager
2. Responsibility
 - Deploy blade servers and storage systems at BIDV domain centers.
 - The server uses HP Blade and the storage device uses Hitachi AMS.
 - Build a deployment model, establish a deployment process,
 - Training and transfer to IT staff at the regional center,
 - Organize implementation and acceptance.

9

11

Optimize transmission line, QoS

1. Team size: 4
2. Position: Project Manager
3. Responsibility:
 - Implement data compression and caching to reduce transmission traffic and prioritize bandwidth for banking transactions (then the transmission line from branches and transaction offices to the center is usually 256kps, 512kps). Deployed to 60 branches of BIDV.
 - Build a deployment model, establish a deployment process,
 - Coordinate with BIDV to develop QoS policies, data compression and caching,
 - Organize implementation and acceptance.



OUR TEAM

NGUYEN TUNG GIANG

SUMMARY

- An accomplished Senior Project Manager, Project Director with a strong background in IT consulting and business transformation.
- A trusted advisor to large enterprise organizations, driving long-term IT strategies and delivering successful outcomes.
- Demonstrated ability to establish relationships with C-suite executives, translate technology into business value, and drive customer success.
- Skilled in project management, contract negotiations, and delivering high-quality results.

SKILL

Programming language

C#.NET, ASP.NET, C/C++, Java, JavaScript

Framework

NodeJS, NestJs, .NETCore, ExtJS, Java Spring,...

Database

MongoDB, MySQL,...

Source Control

Github
Gitlab

EDUCATION

HANOI UNIVERSITY OF
SCIENCE AND
TECHNOLOGY

Specialized in
Information
Technology

EXPERIENCE

NGUYEN TUNG GIANG

Transformation Project Management | Consultancy cum PMO Manager

1

- Position: Project PMO Lead/Manager
- Responsibility: PwC provided PMO Lead/Manager for a jointly program across Techcombank, PwC and Intellect (vendor), include Technology and Business Outcome workstreams. PMO to define the whole program delivery plan, managing risk and dependency and the business value realization.

3

A large core banking transformation project cross various project phases

- 1. Position: Project Director, Project Manager

2. Responsibility:

- Acted as Single Point of Contact for customer executives, managed a trusted relationship with CIO, COO and Chairman.
- Demonstrated as a dedicated, integrity and capable leader

Consultancy engagement for a IT strategy for large Banks of Vietnam

2

- Position: Project Director, Project Manager
- Responsibility: Convinced IBM Partner, legal and sales support internally to get their acceptance on deal model, specific T & Cs, as result the bank agreed to proceed the Transformation program, Participated in a core banking merging project (NZL)

4

Consultancy engagement for a Program PMO setup, Corebanking assessment

- Position: Project Director, Project Manager
- Responsibility: Developing Core banking project definition, Enterprise Architecture definition. Engaged customer to understand their business drivers.

Consult Bank's IT Steering Committees (VietinBank CxOs and all Business Leads) with consulting reports.



OUR TEAM

DINH ANH TUAN

SUMMARY

- An accomplished Senior Project Manager, Project Director with a strong background in IT consulting and business transformation.
- A trusted advisor to large enterprise organizations, driving long-term IT strategies and delivering successful outcomes.
- Demonstrated ability to establish relationships with C-suite executives, translate technology into business value, and drive customer success.
- Skilled in project management, contract negotiations, and delivering high-quality results.

SKILL

Programming language

SQL, Python, R, Matlab, SAS

Framework

Tensorflow, Pytorch, Numpy, Pandas, Matplotlib, OpenCV, Angular,...

Database

MongoDB, MySQL,...

Source Control

Github, Gitlab

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Specialized in Computational /Systems Biology

Postdoctoral Researcher

EXPERIENCE

DINH ANH TUAN

Data Science/Machine Learning (ML)/Artificial Intelligence (AI) products

1

- Duration: 15 years
- Description: Conducted clinical research and collaborated with ~ 80 clinicians, including national leaders at leading disease organizations to build ~100 algorithms for a wide range of clinical applications, including Digital Health, Cardiovascular Disease, Diabetes, Chronic Kidney Diseases (CKD)..

3

Clinical Research

2

Description: Led teams to execute clinical studies to measure impacts of digital health interventions on morbidity and mortality for a wide range of therapeutic areas, including Cardiovascular Diseases, CNS, CKD and Cancers. Familiar with handon experience with regulatory approval processes in drug development and medical device, including IRB and IND.

4

Strong Track Records on Building Value-Generation Applications Through Digital Transformation

Description: Developed a scalable Data-to-Value (D2V) process to transform complex datasets into value, comprising of data management (data ingestion, exploration, cleaning, mapping, augmentation), design, training and deployment of value-added AI/ML algorithms,...

Expertise in Product Development and Deployment

Description: : Identifying products/services with compelling value propositions. Translate strategy into tactical implementation of multi-year data science/ML/AI product roadmap in agile environment. Led complete datascience product cycle from requirement gathering, prototyping, pivoting, product re-scoping..

EXPERIENCE

DINH ANH TUAN

5

Organizational Leadership

Description: Effectively formulate and execute strategic directions, eliminate competing silos, and foster effective communication with clients. Built, and led technical teams of ~ up to 50 members, attract and retain talents.

7

Technical Competencies

Description: Possess comprehensive knowledge and practice of leading-edge analytics, including machine/deep learning, natural language process (NLP), simulation, data mining and optimization. Understanding and hand-on experience with SQL, Python, R, Matlab, SAS. ...

6

Start-Up Experience

Description: Influenced the success of 20 unique startup ventures in healthcare, biotech, e-commerce, and fintech; effectively serving as co-founder, executive, board member, advisor and investor while helping to secure \$100M+ in funding.

8

Data Competencies

Description: : Intimately involving in managing the life cycle of a wide range healthcare data, including Electronic Medical Record (EMR), medical device, wearable biosensors, claim and utilization management hospital operation/staffing, consumer/digital health data, population surveys, clinical trials, cell/animal data, PK/PD, genomics/genetics/proteomics.



OUR TEAM

TONY NGUYEN

SUMMARY

- An accomplished Senior Project Manager, Project Director with a strong background in IT consulting and business transformation.
- A trusted advisor to large enterprise organizations, driving long-term IT strategies and delivering successful outcomes.
- Demonstrated ability to establish relationships with C-suite executives, translate technology into business value, and drive customer success.
- Skilled in project management, contract negotiations, and delivering high-quality results.

SKILL

Programming language

SQL, Python, R, Matlab, SAS

Framework

Tensorflow, Pytorch, Numpy, Pandas, Matplotlib, OpenCV, Angular,...

Database

MongoDB, MySQL,...

Source Control

Github, Gitlab

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Specialized in Computational /Systems Biology

Postdoctoral Researcher

EXPERIENCE

TONY NGUYEN

Joytu.be

- Developed business & pricing models, strategies, markets & partners; managed products; recruited & managed teams
- Won Singapore Tourism Board's Hotel Innovation Challenge 2019 (Singapore), The Most Favorite Product in WHISE 2019 (Vietnam), Top 20 Scale Osaka (Japan) 2021, Top 10 TechFest Vietnam 2021. Selected for Mercedes-Benz Startup Autobahn 2018, Quest Ventures' Vietnam Global Innovation 2020, Singapore Smart Nation Navigator
- Sold & deployed joyTu.be services in various businesses & media agencies (Standard Chartered Bank, HP, Lazada, Mercedes-Benz, Jardine Cycle & Carriage, IVYmoda, phd, Le Bros, etc.)

1

2

Research Fellow/Post-doctorate (NExT); Manager (Interactive and Digital Media Institute)

- Led technology commercialization & managed product development for project Jiku (interactive video streaming)
- Managed & worked with R&D teams on multimedia research, system architecture and development
- Received ACM Multimedia Best Demo Award (~ Oscar for multimedia researchers & industry practitioners) in 2013

EXPERIENCE

TONY NGUYEN

3

Senior research analyst

- Responsible for business-to-business market intelligence research & consulting practice on Internet technologies, telecom services (e.g., cloud computing, data centers, mobility), and social media.
- Successfully led & managed various strategy and go-to-market consulting projects that involved different vendors, large client teams, and multiple countries (e.g., Australia, China, Hong Kong, India, Indonesia, Korea, Malaysia, Singapore, Thailand, Vietnam) for Fortune 100 and major ICT corporations.
- Developed special reports (e.g., market trends, corporate strategies), press releases, and media responses; Effectively increased AMI's coverage and brand power with publications on CNBC, Reuters, The Business Times, ZDNet, etc.

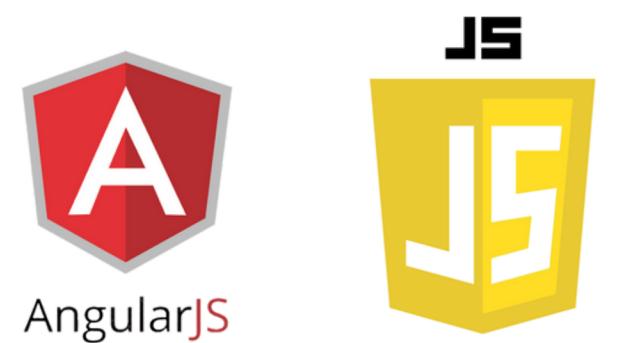
4

Senior marketing executive, Regional business planning

- Created the first analyst relation program & go-to-market strategy for NEC Asia Pacific; Managed market research and analysis, developed plans and alliances for NEC strategic investment in smart energy/grid
- Created & managed a semi-weekly business newsletter, research database, market reports (on M2M, NFC, telecom, smart energy, etc.) for top management/strategy/sale teams

SOFTWARE DEVELOPMENT

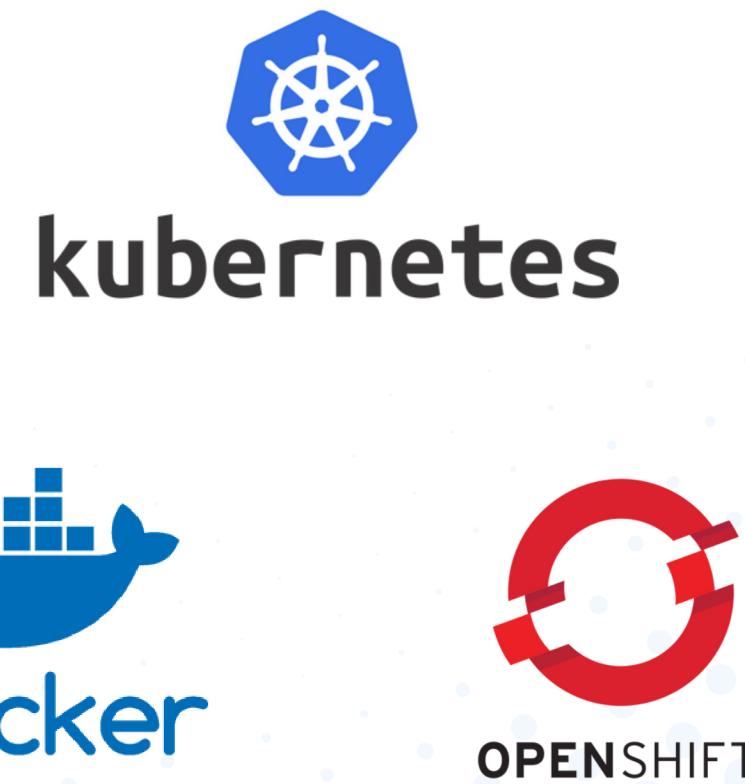
PROGRAMMING LANGUAGE & FRAMEWORK



DATABASE



SYSTEM ARCHITECTURE, MICROSERVICE



AI BASED TECHNOLOGIES

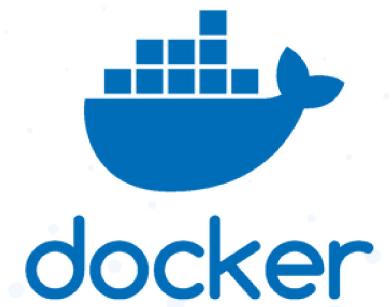
MACHINE LEARNING FRAMEWORK



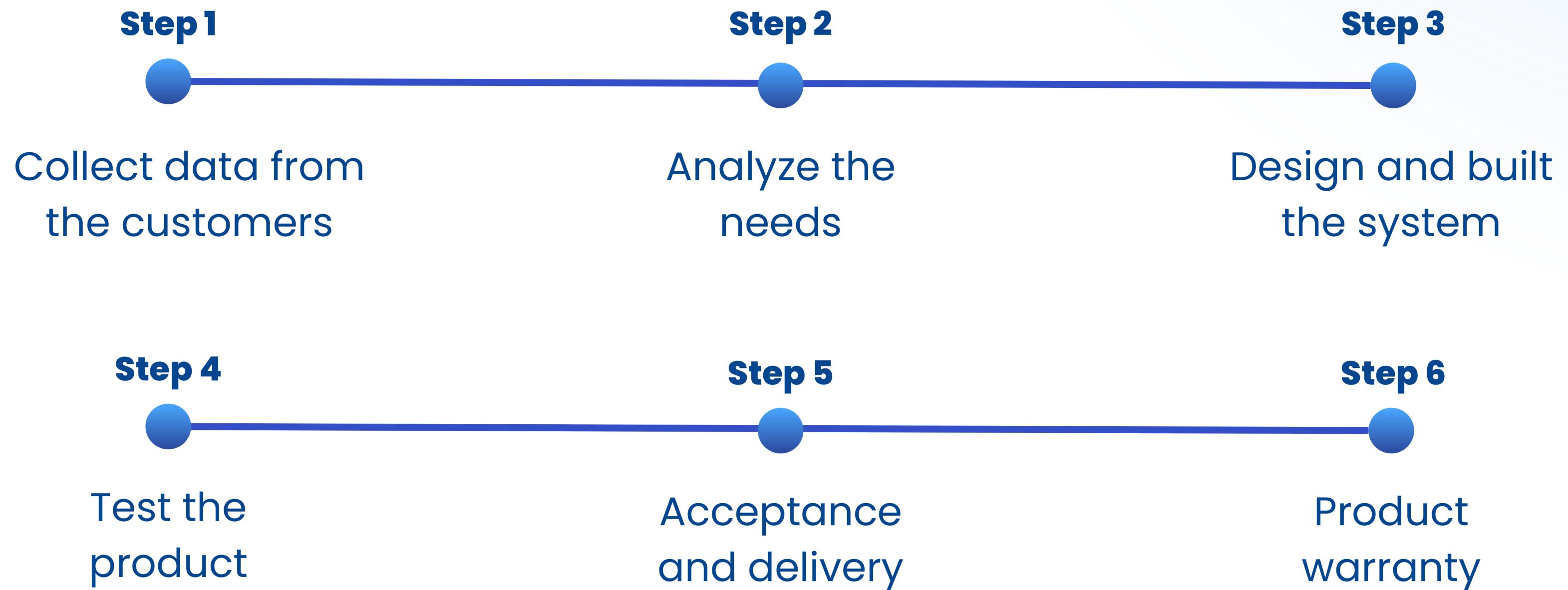
DATA ANALYSIS TOOLS



DEPLOY AI SYSTEM



PROJECT PROCESS



PUBLICATIONS

● Major publications

1. Tan Nghia Duong, Minh Tu Hoang, Quang Hieu Dang and Manh Hoang Tran, "A Practical Synchronization Algorithm for IEEE 802.15.4a UWB Receivers", The 2013 International Conference on Advanced Technologies for Communications (ATC'13), pg. 170-175, Hochiminh City, Vietnam, Oct. 2013.
2. Manh Hoang Tran, Tan Nghia Duong, Duc Minh Nguyen, and Quang Hieu Dang, "A Local Feature Vector for an Adaptive Hybrid Fingerprint Matcher", The 2017 International Conference on Information and Communications (ICIC), pg. 249-253, June. 2017.
3. Tan Nghia Duong, Viet Duc Than, Trong Hiep Tran, Thi Hong Anh Pham, Van Hoang Anh Nguyen, and Hoang Nam Tran, "A Practical Solution to the ACM RecSys Challenge 2018", The 2018 5th NAFOSTED Conference on Information and Computer Science (NICS), pg. 341-343, Nov. 2018.
4. Tan Nghia Duong, Viet Duc Than, Trong Hiep Tran, Quang Hieu Dang, Duc Minh Nguyen, and Hung Manh Pham, "An Effective Similarity Measure for Neighborhood-based Collaborative Filtering", The 2018 5th NAFOSTED Conference on Information and Computer Science (NICS), pg. 250-254, Nov. 2018.
5. Duong, Nghia, Minh Nguyen, Hieu Quang, and Hoang Manh Cuong, "An Improved Fingerprint Matching Algorithm Using Low Discriminative Region", In Proceedings of the Ninth International Symposium on Information and Communication Technology, pg. 470-476. 2018.
6. Tan Nghia Duong, Viet Duc Than, Tuan Anh Vuong, Trong Hiep Tran, Quang Hieu Dang, Duc Minh Nguyen, and Hung Manh Pham, "A Novel Hybrid Recommendation System Integrating Content-Based and Rating Information", The 22nd International Conference on Network-Based Information Systems (NBiS-2019), pg.325-337, Springer, Cham, 2019.

PUBLICATIONS

● Major publications

7. Duong, T.N., Vuong, T.A., Nguyen, D.M. and Dang, Q.H., 2020. Utilizing an Autoencoder-Generated Item Representation in Hybrid Recommendation System. *IEEE Access*, 8, pp. 75094–75104.
8. Tan Nghia Duong, Truong Giang Do, Nguyen Nam Doan, Tuan Nghia Cao, and Tien Dat Mai, 2021. "Hybrid Similarity Matrix in Neighborhood-based Recommendation System", In 8th NAFOSTED Conference on Information and Computer Science (NICS), pp. 475–480, IEEE.
9. Tan Nghia Duong, Nguyen Nam Doan, Truong Giang Do, Manh Hoang Tran, Duc Minh Nguyen, and Quang Hieu Dang, 2022. "Utilizing Half Convolutional Autoencoder to Generate User and Item Vectors for Initialization in Matrix Factorization". *Future Internet* 14, no. 1 (2022)
10. Tan Nghia Duong, Truong Giang Do, Tuan Nghia Cao, and Manh Hoang Tran, 2022. "User-Item Correlation in Hybrid Neighborhood-Based Recommendation System with Synthetic User Data," 2022 IEEE Ninth International Conference on Communications and Electronics (ICCE), pp. 176–181, IEEE.
11. Duong Tan Nghia, Cao Tuan Nghia, Do Truong Giang, Mai Tien Dat, & Tran Manh Hoang (2023, October). A Scalable Recommendation System with Hybrid Similarity Matrix Using Accelerated Particle Swarm Optimization. In 2023 International Conference on Advanced Technologies for Communications (ATC) (pp. 480–487). IEEE.
12. Tan Nghia Duong, Thi Thu Trang Pham, Truong Giang Do, Manh Hoang Tran, Thi Kim Phuong Dinh. "A Generalized Autorec Framework Applying Content-based Information for Resolving Data Sparsity Problem." In Proceedings of the 12th International Symposium on Information and Communication Technology. 2023. p. 181–188.

- References: <https://scholar.google.com/citations?user=0pCiJzEAAAAJ&hl=vi&oi=sra>

PARTNERS



GMO-Z.com RUNSYSTEM



EVN



FOREIGN CUSTOMERS



MatrixSense



BUSINESS
EXECUTIVE
NETWORK

vinadrip





DOMESTIC CUSTOMERS



HỆ THỐNG GIÁO DỤC
NGÔI SAO HÀ NỘI



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