

Milton Li

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Natural Language Processing, Fuzzy Matching,
Machine Learning, Machine Translation,
Data Analytics, Algorithm Design, Classification,
Prediction and Modeling, Digitization

PROFILE

- Strong interest in using automation and smart technology to complement or supplement human capabilities in business and finance
- Keen learner with experience in project management, data analytics, machine learning and artificial intelligence
- Enthusiastic, resilient and highly motivated to excel with a focus on teamwork and collaboration
- Experienced with CI/CD, agile frameworks and general DevOps processes
- Started programming at 14 years old and currently programming simple tools and conceptual experiments regularly as a hobby

EDUCATION

Singapore Management University

2014 – 2018

Bachelor of Business Management (Magna cum Laude Honours)

- Undergraduate in SUTD-SMU Dual Degree Scholarship Programme

Singapore University of Technology and Design

2014 – 2018

Bachelor of Engineering (Magna cum Laude Honours)

- Majoring in Information Systems Technology and Design with a specialization in Artificial Intelligence

SKILLS

Programming

- Proficient: Java, Javascript, PHP, Python, R
- Basic knowledge: Excel VBA and C++
- Frameworks: Laravel, Django, pyTorch, Vue.js
- Database: mySQL, MongoDB
- Tools: Docker, AWS, GCP

Language

- Bilingual proficiency in English and Mandarin Chinese
- Basic knowledge of French

Familiar with Agile techniques and comfortable with Scrum (was previously Scrum master for several development projects)

WORK EXPERIENCE

WritePath Translation Services

Dec 2017 – present

Full Stack Engineer / Research Engineer

- Constructed web-scraping tools and an automated corpus crawler for machine translation development and digitization
- Developed an alignment tool for automated alignment of bilingual corpus (reaches >90% accuracy if coupled with back-translation techniques)
- Led the development and extraction of learning features as a Scrum master for Traditional Chinese to English financial machine translation engine which performs better than Google on in-domain financial content
- Refined a fuzzy match system to match previously translated sentences and reduce translation expenses by 20% and translation time by 30%
- Supported full stack development of a translation management platform in PHP (front-end HTML), coupled with a translator recruitment website in Laravel (PHP) and Javascript (Vue.js)

Information Fusion Centre, Singapore Navy

May 2012 – Dec 2013

Data Analyst

- Constructed and developed a database comprising 2,000 entries, complete with a graphic user interface, to quickly store and retrieve data used for analysis
- Analysed data relating to maritime security and converted the corresponding data into visual aids for clarity and sense-making purposes

- Created a heatmap of maritime incidents and sea robbery occurrences to provide actionable advice to ships transiting through the Indian Ocean, Malacca Strait and South China Sea

ACADEMIC PROJECTS

UBS

Sep 2017 – Dec 2017

Business Consultant

- Conducted market research, interviews and analysis in a team comprising four students and two industry advisors heading operations in the APAC region
- Developed new market entry strategy for the introduction of a new product line

Gilmour Space Technologies

Feb 2017 – Aug 2017

Research Assistant

- Combined biological systems to process carbon dioxide and wastewater in an enclosed environment
- Designed and conducted biology experiments and analysed spectrophotometry data using R
- Developed a training method using logistic regression and stochastic gradient descent for duckweed surface area detection

Mobile Application – Game Design

Sep 2016 – Dec 2016

Game Developer

- Developed gameplay logic and game world on a Java platform and using the Tiled library
- Designed the communication protocol between client and server using UDP
- Streamlined the communication process through client-side processing and security checksums

Mobile Application – Route Planner

May 2016 – Aug 2016

Application Developer

- Constructed and developed a route planner on a Java platform for users to travel from a starting location to up to five other consecutive locations
- Optimized the route using an algorithm which incorporates Google API