Thomas **Thio | Tokyo  
IMPORTANT:** Singaporean, with 5 Year Japan Work Visa (from Feb 2020) **Mobile: (**+81) 070 3326 9411 **Email:** [thio.thomasks@gmail.com](mailto:thio.thomasks@gmail.com)  
**Portfolio:** <https://pathbrite.com/thomasthio/SgBO>

* Proficient in C#, C++, Java and Python
* Experienced in API connectivity and interop
* Intellectually curious, collaborative and high EQ
* Strong communicator
* Results-driven, excels in fast-paced environment
* Highly mobile and open to global relocation

**EXPERIENCE**

**Rakuten Inc (Japan) Mar 2020 – Present**

*Software Engineer, Tokyo*

* Projects worked on: App-to-App Affiliate Network
* AD Delivery Team, Ad Core Platform
* Java, Linux, Redis, Logstash, Elastic

**Theme International Trading SPC (Liquidity Provider & Prop Trader) Jan 2019 – Dec 2019**

*Trading Engineer, Singapore*

* Enabled automated market-making on illiquid and mature markets, generating USD$12K monthly profit per product. Responsible for agriculture and FX products in the US and SEA.
* Wrote inhouse trading GUI and connections to brokers, trading software and data vendors using C++, Python, and C#. Writing trading strategies and order management algorithms.
* Influenced add, hold or cut decision-making criteria via seasonality analysis of spreads and hedge options, and identifying fair values and optimal holding times in a random forest ensemble and spread permutations.
* Excel RTD plugins to extract data and positions from legacy software. Scripts to compute position statements and PNL, speeding up reconciliation by 2.5x.

**Independent Consulting (Business Process, Software) Jan 2018 – Jan 2019**

*Selected Projects*

* Process mapping & data management for route optimization of warehouses, drivers & end points in the US.
* Achieved 0.3 loss for custom image and object recognition on Raspberry Pi using Tensorflow & AWS for London client.

**Research Room (Data Science & Management Consulting)**

*Analytics Developer (Intern)* **Dec 2017 – Feb 2018**

* Research on Fama-French factor models and discovery of beta with alternative data sets.
* Text mining with ESA techniques on conference calls and financial dictionaries to analyze sentiment pairs using nltk and genism.
* Built knowledge graph of documents, allowing keyword search searching of key topics via semantic relatedness and authority of papers using graph-tools and Django.

**GUTTZ Pte Ltd (Enterprise Software) Sept 2013 – April 2016**

*Information Systems Analyst*

* Coordinated product development of new software features between developers, testers and clients. Led market research and ensured deliverables are on time and of quality.
* Optimized software development life cycle (SDLC) processes achieving 15-25% faster turnaround of new features from request to deployment.
* Proposed and led re-design of sales intelligence dashboards, providing additional revenue channel.
* Implemented templates to speed up replies to product inquiries by 20%.

**EDUCATION**

**Singapore Management University** **Aug 2014 – Jun 2018**

# *Bachelors of Science in Information Systems with High Merit, 2nd major in Advanced Business Technology*

* GPA of 3.34/4.0, Recipient of SAS Institute Bachelor of Science Scholarship.
* Awarded Best Final Year Project for Technical Complexity. Built teaching load system to raise accuracy and efficiency in allocating supply of faculty and demand of courses.
* Distinctions in Data Mining, Modelling & Simulation, Visual Analytics, Financial Markets, Internet-Of-Things

**Temasek Polytechnic** **Apr 2009 –Sept 2012**

# *Diploma in Communications & Media Management with Merit, Specialization in Marketing*

* Top 10% of cohort for 3 consecutive years.
* Course Council Treasurer, managing cash and accounts. Developed fundraisers bringing $1500 for cost of $300, meeting at least 80% of yearly budget required.
* Overseas exchange to University of Western Australia, Perth.

**SKILLS & CERTIFICATIONS**

* Proficient with Python, Java, C#, SQL/NoSQL, Git. Wide use of TensorFlow, Keras, pandas, scikit-learn, Spark, Hadoop, JSON/XML scraping.
* Familiar with RapidMiner, JMP Pro, SAS EM, VDDML, Tableau, SPSS, Gephi, Qlk, Power BI. Familiar with Deployments in AWS, Heroku & CloudFoundry, Databases in Oracle, SQL Server, CouchDB.
* Attended IEEE [Multi-Robot Systems Summer School](http://www.multirobotsystems.org/) and [Autonomous Agents & Multi-Agent Systems](https://sis.smu.edu.sg/aamas2016), covering artificial intelligence planning and multi-agent robot systems.
* Certificates in Machine learning (Coursera), CompTIA and ISC2 CISSP (Cybrary).

**AWARDS & ACCOMPLISHMENTS**

* Led development and teaching of introductory programming curriculum on request for university friends and overseas community project in Vietnam.
* Top 4% of Kaggle leaderboard rankings in time series store sales forecasting in Data Mining project.
* Featured on [SMU’s Facebook](https://www.smu.edu.sg/news/2017/05/26/smu-students-suggest-speedier-and-more-streamlined-processes-eregister-ministry), [Channel 8](http://www.channel8news.sg/news8/singapore/20170524-sg-smumfa-tech/3723160.html), & LianheZaoBao on digital strategy recommendations for Ministry of Foreign Affairs’ Travel e-Registration services.
* Research Assistant working on flagship SMU-X Statistics project that was featured in the [Straits Times](http://www.straitstimes.com/singapore/eat-drink-but-maybe-give-the-toilet-a-miss).
* Finalist in the 13th Start-Up @ Singapore business plan competition. Went through 3 rounds of judging and presented to audience of five hundred.
* Represented Singapore Chinese Football Club in the Singapore National Football League (NFL) from 2010-2011, winning 2nd in 2010.
* Clinched 2nd in the 2009/2010 POLITE games for representing Temasek Polytechnic in Soccer.

**HOBBIES & OTHERS**

* Running & football, to maintain mental and physical stamina, with occasional mountain climbs to push my limits.
* Financial data & equity analysis, strategy development for personal and family’s portfolio needs.
* Merchant’s Club (Commodity trading interest group). Researched fundamentals and trading strategies of Corn, Copper, and Crude Oil.