

# Thongchai Wirojsakseree

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## PROFESSIONAL WORK EXPERIENCE

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### **Analyst in Technology, JPMorgan Chase & Co., London, U.K.**

(Aug. 2016 - Present)

- Designed and Implemented an order book visualised web application using Flask, Python, Bootstrap, HTML5, CSS3 and jQuery based on input from the keyboard. Depending on users, call-back function and preload buffers store displayed information to avoid a waiting time and a connection time for a quick display system. It is used internally by traders.
- Implemented a real-time market data software in C to compare the data from two sources such as Reuters. The difference is alerted and displayed to users. Advanced algorithms are applied to reduce the runtime and memory.
- Debugged Enterprise Software in C/C++, Java, Python, Shell Script, XML among others in Linux servers.
- Visualised Reporting using Qlik Sense and Postgresql is implemented to report stats, used by non-profit organisation.

### **Software Engineering Intern, Credit Suisse, London, U.K.**

(Jun. – Sep. 2016)

- Developed a resource optimisation project using Python with Scikit-Learn library, Flask, Bootstrap, Apache Hive. Unsupervised learning technique is applied to increase an accuracy of the prediction 60% better. Visualised web application is implemented using jQuery, HTML5 and CSS3 for traders usages.

## EDUCATION

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### **University College London (UCL): MSc Financial Systems Engineering (FinTech)**

(Equal To Merit) (2015 – 2016)

- Developed an algorithm trading in Quantopian (Python) with 240% profit from a backtest between 2002 and 2015.
- Built a web-app & window phone group project using JS(jQuery), Bootstrap, C# with Microsoft Team.

### **University of Bristol: BSc Computer Science (2:1 honour with excellence in all taught modules)**

(2012 – 2015)

- Written a simulation analysis programme of trading indicators such as MACD, RSI, DMI in Python.
- Developed a spam filter software to classify a new email is spam or not with Naive Bayes classifiers in Java.

## AWARDS

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### **2nd place at IG Disrupt the Markets Fintech Hackathon**

(2016)

- Granted to an innovative technology project for Millennials Generation.

### **Pitch Winner at Almanis Financial Inclusion Challenge at Oxford University**

(2016)

- Awarded to the best innovative idea combined Technology and Finance together for the future of finance.

### **Team Winner at BlackRock's Hackathon 2015**

(2015)

- Prize to an innovative technology project to help James Bond completed his missions.

### **The Royal Thai Government Scholarship for studying abroad**

(2011 - 2016)

- Scholar for top students in programming, data structure, algorithm and problem solving.
- Selected for Thai top national programming camp (4 awards each year).

## SKILLS

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**Programming Languages:** C/C++, Java, JavaScript, Python, SQL among others. **Languages:** Fluent English and Thai.

**Frontend:** Bootstrap, jQuery, HTML5, CSS3, AJAX, UI Designer.

**Backend:** Flask, Node.js, Django.

**Technology Areas:** Machine learning, Algorithms, Database, Multi-Threading, Image processing among others.

## OTHER ACTIVITIES

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**Coursera (Online Courses):** Machine Learning, Algorithm I & II, Neural Network.

**Hackathons:** Disrupt London Hackathon, Intertech Hackathon, Blockchain Week Hackathon, Code for Good, Microsoft Data Science Hackathon, BlackRock's Hackathon, IG Disrupt the Markets Fintech Hackathon and much more.

**Programming competitions:** Google Code Jam, Facebook Hacker Cup, Bloomberg Codecon among others.

**Volunteer:** Teaching Assistant of Machine Learning workshop and SME of Code for Good 2016 in JP Morgan.

**Self - Investment:** Traded equities, commodity and forex with up to 30% yield profit per year since 2012.