



# Yong Jun (Tim) Song

Software Developer



## Projects

### Won Coin (Python)

<https://github.com/timyjsong/WonCoin>

- Working on designing a personalized crypto-currency using block chain technology
- Utilizing Angular with TypeScript to design a dynamic front-end
- Utilizing Docker to maintain more loosely coupled relationships between different applications
- Utilizing a Flask API to distribute data to the front-end

### Web Scraper (Python)

<https://github.com/timyjsong/LeagueScraper>

- Designed a tool that scrapes data from an analytics website involving statistics on a game called League of Legends
- Utilizing the Django framework to organize and display analytics on the scraped data
- Utilized HTML5, CSS3, and Bootstrap 4 to design a responsive and contemporary front-end
- Utilized Jinja2 templating framework to interpolate back-end information into front-end templates
- Implemented role based user systems with multiple layers of hierarchy
- Built reactionary email delivery system based on user request via IMAP and POP3 email protocol
- Utilizing beautifulsoup4 library along with Python's requests library to scrape public statistics, organize JSON data, and design a sleek database for more complex queries
- Utilized cache mechanics to reduce the footprint of the requests made to the site

### Omok Game (Python)

[https://github.com/timyjsong/Omok\\_Game](https://github.com/timyjsong/Omok_Game)

- Created a graphic-based version of a traditional board game commonly played in South Korea.
- Designed a personalized logger to apply error-based programming with the use of custom debug, error, and info handlers
- Utilized property decorators to create dynamically generated variables
- Utilized tkinter library to create a visible and functional representation of a traditional South Korean game
- Utilized extensive use of inheritance to extend the functionality of base classes

### Hotel Reservation System (Java, SQL)

<https://github.com/timyjsong/syntelTraining>

- Designed and implemented a web-based, menu-driven database system for a hotel/guest relationship to support login, registration, reservation, customer review, customer statistics, inventory, and issue reporting.
- Employed Object-Oriented concept to lay out the foundation of our varying models
- Developed expertise in the HTTP protocol, utilizing GET and POST requests to manage our services
- Utilized Spring MVC model to connect the numerous technologies the system used

### AI Colorization Program (Java)

<https://github.com/timyjsong/syntelTraining>

- As a team of three, we created an Artificial Intelligence software that colors in black and white photos and vice-versa.
- Utilized machine learning algorithms with the help of multivariable calculus and mean squared error to train the algorithm
- Implemented neural networks to recognize patterns within the inputted RGB data and produced associations with certain shades with different colors



## Experience

### Developer (Associate Consultant)

State Street (via Atos Syntel Inc.)

Developer/Project Overseer - User Provisioning Tool (Current)

2018-10 -  
present



## Personal Info

### Phone

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### E-mail

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### GitHub

<https://github.com/timyjsong>

### LinkedIn

<https://www.linkedin.com/in/timyjsong/>



## Software

**Languages/Skills:** Python\*\*, Bash\*\*, Java\*\*, SQL\*\*, HTML5, CSS3, Unix, C, C#, C++, JavaScript, Spring Framework, MVC, JQuery, Angular, Docker, Oracle Database, MySQL, PostgreSQL, PL/SQL, JDBC, PowerShell, Bootstrap4, AWS, GCP, Jenkins, Terraform, XML, Jinja2, Django

**Operating Systems:** Windows OS, Mac OS, Redhat Linux, Debian Linux, and Arch Linux

**Tools Used:** Eclipse, PuTTY, GitHub, Windows Shell/Bash, Android Studio, Visual Studio, Oracle SQL Developer, SQL Command Line, Tableau, Fircosoft, Excel, Vizio, MySQL, ESP, Tableau, Jira, BitBucket, Confluence, SSH, MongoDB, PL/SQL Developer, BurpSuite, Fiddler, RTC



## Skills

Problem Solving, Logic, Deep Analysis, and Advanced Mathematics

Critical Thinking, Creative Leadership, and Clear Communication

Proficient in Microsoft Office Tools, Jira, BitBucket



## Languages

English - Fluent (\*\*\*)

Korean - Fluent (\*\*)

- Worked as the bridge between Developers and Business managers (clients) to ensure requirements were fully comprehended and delivered on a timely manner with the leverage of using Agile Development Framework.
- Maintained the wellness and validity of "Connectors" which were used as a means of provisioning and discovery between our applications and UPS tool.
- Worked closely with the Dev team to diagnose and debug any issues with new development via thorough and rigorous testing, code reviews, and deep analysis with Unix and PL/SQL.
- Provided demonstrations and knowledge transfer sessions on a weekly basis to the Development Team and Business Personnel.
- Quarterly recertifications consisting of data validation, data architecture and data governance.
- Everyday use of tools such as Jira, RTC, BitBucket, Confluence, Vizio, Excel, and Tableau to groom stories, assess challenges, analyze, and produce visual representations of specific architectures and data points.

**Data Analyst - Anti Money Laundering (8 Months)**

- Conducted market research and analyzed different data lake databases, data lineage tools, etc. in the industry for the improvement of the workflows and storage systems for State Street.
- Utilized an AML tool called *Fircosoft* to identify and analyze false positive hits against potential illegitimate transactions.
- Periodically operated on corporate platforms such as IGC (information governance catalog), RSP (resource servicing platform), Tableau, Microsoft Excel and Visio to communicate to and handle tasks with/for the business side of State Street.



**Education**

● **Rutgers University, New Brunswick NJ - B.S. in Computer Science / Mathematics**

Pursued a business degree (CPA Accounting) the first 2 years of University, then transitioned to a focus in Comp Sci during my 3rd year with an interest in Math.

Data Structures (Java), Systems Programming (C and Unix), Internet Technology (Python), Computer Architecture, Design & Analysis of Computer Algorithms, Intro to AI, Software Methodology, Principles of Prog. Languages

2013-09 -  
2018-05