Yong Jun (Tim) Song

Software Developer

Projects

EventHub - Web Scraper (Python)

https://github.com/timyjsong/EventHub

- Designed a tool that scrapes data from various event hosting platforms to form a central hub of upcoming events
- 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

- 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

Contact

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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

Korean game
- Utilized extensive use of inheritance to extend the functionality of base classes

Won Coin (WIP)
- 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

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 varying models
- Developed expertise in the HTTP protocol, utilizing GET and POST requests to manage 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, created an Artificial Intelligence software that colors in black and white photos and vice-versa.
- Utilized machine learning algorithms with the help of multi-variable calculus and mean squared error to train the algorithm
- Implemented neural networks to recognize patterns within the inputted RBG data and produced associations with certain shades with different colors

💼 Work History

2018-10 • **Developer (Associate Consultant)**

State Street (via Atos Syntel Inc.)

Developer/Project Overseer - User Provisioning Tool (Current)

- Bridge between Developers and Business managers (clients) to ensure requirements were fully comprehended and delivered on timely manner with leverage of using Agile Development Framework.
- Maintained wellness and validity of "Connectors" which were used as means of provisioning and discovery between our applications and UPS tool.
- Worked closely with 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 weekly basis to DEV Team and Business Personnel.
- Managed quarterly re-certifications: audits on thousands of users' access via data collection, data analysis, and regression testing
- 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 industry for improvement of workflows and storage systems for State Street.
- Utilized 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 business side of State Street.

🎓 Education

2013-09 -

Bachelor of Science: Computer Science

2018-05

Rutgers, The State University of New Jersey - New Brunswick, NJ

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

- Member of Pi Kappa Alpha