

Winsor Tse

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SKILLS

- C++, Java, Python
- JavaScript, HTML, CSS, PHP
- MySQL, MongoDB, Jenkins
- Linux, Windows, Git, Jira
- Python Flask, React.js, Node.js
- Gdevelop, Minecraft Modding

EXPERIENCE

Qualcomm

Software Developer — Machine Learning Tools (Valiant)

Mar 2022 — Present

- Developed Valiant - a scalable, automated environment, infrastructure & tool set used to solve the automation problem of sparse sets of engineering data, validation on platforms (AI edge boxes) & ML Perf tests/benchmarks.
- Expedited 90% of the data storage process by automating test log generation & job data storage in MongoDB to eliminate manual storage & streamline the software debugging process.
- Reduced testing time by 20% by implementing features to target multiple platforms - ML simulation (resnet50, bert).
- Integrated Jenkins' CI/CD job schedulers to solve conflicting jobs & automate reporting systems.
- Revamped code base by transitioning legacy code in Python 2 to Python 3 to streamline development flow, increase the maintainability of the code base & solve errors caused by deprecated Python libraries.
- Increased environment availability by 30% through resolving software bugs, refactoring code & developing algorithms.

ID Tech Camps

Jun 2020 — Mar 2022

Private Lessons Instructor — Game Design Programming

- Built Java Minecraft modding [projects](#) to create custom items & mobs for students & instructors as learning resources.
- Designed beginner-friendly single-player games using Python, Javascript, Java, Minecraft & Gdevelop to teach 50+ children aged 6-18 about game design & programming concepts.

Fordham University

Software Engineer Intern — Autograder Program

Jul 2021 — Aug 2021

- Reduced 20% of professors' workload with C++ & Python programs for auto-grading data structures labs.
- Created robust test cases to check for coding style, memory leaks & runtime complexity.

Teaching Assistant & Tutor — Data Communications & Networks

Jun 2019 — Jan 2022

- Assisted over 300 students in tutoring sessions with guided C++ & Java data structures & algorithms exercises.
- Explained networking protocols & helped with exams & curriculum development.

EDUCATION

Fordham University, Bronx, NY

Aug 2018 — Dec 2021

Bachelor of Science, Computer Science - GPA: 3.61/4.0, Cum Laude

PROJECTS & ACHIEVEMENTS

East Asian News [Aggregator](#)

- Designed a responsive [Website UI](#) in React.js using third-party libraries & implemented Axios to get JSON data from RapidAPI, which displays previews of Chinese, Japanese & Korean online newspaper articles.
- Utilized Node.js' parsing of HTML on online newspaper companies' websites to post JSON data (article's title, URL, etc.) to [RapidAPI](#).

Historical Mad Lib [Game](#)

- Assembled the Python NLP sentiment analyzer, named entity recognition (Spacy) & historical events API features to automate the generation of Mad Libs [games](#).
- Implemented SQLite Database to store, sort & delete specific players' names, scores & dates.
- Architected the website's UI by including HTML, CSS & Flask's Jinja2 for conditional HTML elements

Leadership: • Fordham Tzu Chi President (2020-2021) • Eagles Taekwondo Black Belt Instructor (2016-2019)

Awards: Top Booked Instructor for ID Tech's Minecraft: Game Design course, Collegiate Science & Technology Entry Program Scholarship, Tzu Chi Scholarship for Compassion, Fordham Loyola Scholarship, Dean's List