

Tsz Kit (Jacky) Wong

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Education

Boston University, College of Arts and Sciences, Boston, MA

May 2025

Bachelor of Arts, Computer Science

Awards/Honors: Dean's List, Upsilon Pi Epsilon Honor Society, Tri-Alpha Honor Society

Relevant Coursework: Intro to CS I (Python), Intro to CS II (Java, OOP, Data Structures), Computer Systems, Web Development, Calc I, Discrete Mathematics, Linear Algebra, Probability & Statistics, Algorithms, Software Engineering, Machine Learning, Database Systems

Technical Skills

- Languages & Frameworks: Python, Flask, Java, Spring Boot, Javascript, Typescript, Angular, React, HTML/CSS, Bootstrap, OCaml
- Tools: Google Search API, OpenAI API, Azure, VMware, BeautifulSoup, Git, GitHub, MySQL, MongoDB, Postman, IntelliJ, Jira

Work Experience

Boston University CHCD, Data Engineer Intern – Boston, MA

August 2024 – Present

- Leading the creation of a python-based program leveraging generative AI & text similarity to validate and confirm data duplicates from a master list of over 3,600 entries, significantly enhancing the accuracy of CHCD's database and spreadsheet records
- Designing a system to flag duplicates early in data collection, preventing inconsistencies from entering the database
- Managing data consolidation from multiple Google Sheets, accurately merging duplicates to ensure data integrity
- Contributing to data process transitions that support scalability, ensuring the CHCD's database stays organized as it grows

Verint Systems, DevOps Engineer Intern – Remote

May – August 2024

- Led the migration of 70+ on-premise virtual machines and resources from VMware to Microsoft Azure via Jenkins pipelines, enhancing the company's cloud infrastructure capabilities and reducing operational and maintenance costs
- Leveraged SnowCommander to manage resource usages and requests of 6,000+ VMs across AWS, Azure, and VMware

Projects

Immigration Raids Data Collection & Validation Program, Technical Lead

March – April 2024

- Led the development of a Python-based data collection program that leveraged Google Search API to dynamically query & retrieve 7000+ articles and employed BeautifulSoup library to efficiently extract and parse text contents from HTML files
- Integrated filtering and OpenAI's GPT API to validate accuracy of results through natural language processing and successfully refined dataset from 7000+ initial results to ~325 highly relevant articles, enhancing data precision by over 95%
- Fine-tuned data extraction to handle large datasets, reduce duplication, and increased overall efficiency of program by over 50%

Full Stack Flashcard Webapp for English Learners, Front-End & API Lead

Nov – Dec 2023

- Designed a minimalistic Angular-based frontend and Python/Flask backend app catering specifically to English language learners through a curated deck of the top 1000 most frequently used English words, with an custom interactive features to tailor learning
- Integrated Google Translate API and Dictionary API to offer real-time translations and comprehensive definitions
- Ensured a secure user experience by implementing Firebase for OAuth2 authentication enabling easy access and data encryption

Full Stack E-Commerce Site

Sep 2023

- Designed a fully functional and secured e-commerce application with a responsive Angular-based interface, a robust Spring Boot back-end with REST APIs, and integrated MySQL databases for user/product data storage, retrieval, and management
- Integrated Stripe API for secure credit card transaction processing functionality and Okta OAuth2 to secure API access by users

Leadership Experience

Upsilon Pi Epsilon, Recruitment Committee Member

Sep 2023 – Present

- 1 of 16 members inducted into the IOTA class of Boston University's highly selective computer science honor society
- Developed and standardized coding interview questions as well as conducting interviews of prospective members

Terrier Motorsport, Electrical Team Project Lead

Dec 2022 – May 2023

- Oversaw project source control and development of the telemetry system for Boston University's Formula SAE competition car
- Made executive decisions on project structure, conduct validation test, and coordinate strategies with other project leads
- Provided leadership and support to a 12-person sub-team to ensure cooperation between members and maximize work efficiency