

# James Kong

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## EDUCATION

### Brandeis University

Waltham, MA

*Master of Science in Computer Science (MS)*

Aug. 2024 – May. 2025

*Bachelor of Science in Computer Science (BS), Minor in Business*

Aug. 2020 – May. 2024

## EXPERIENCE

### Graduate Head Teaching Assistant - Intro to Problem Solving in Python

Aug. 2024 – Dec. 2024

*Brandeis University*

*Waltham, MA*

- Lead bi-weekly recitations and weekly office hours for 70 students, reinforcing Python programming concepts
- Supervise the grading process and coordinate exams to ensure fairness and accuracy

### IT Technician Level II

Nov. 2022 – May. 2024

*Brandeis University*

*Waltham, MA*

- Delivered comprehensive technical support to clients, efficiently managing up to 350 tickets per week
- Promptly tracked and resolved tickets using Jira with a 85% ticket resolution rate under 48 hours

### Software Engineer Intern

May. 2023 – Aug. 2023

*Zebra Technologies*

*Dedham, MA*

- Developed a machine learning prototype interface for payroll anomaly detection using the Isolation Forest algorithm in Python, analyzing over 5.4k transactions from an IBM Db2 database streamlined by optimized SQL queries
- Automated API documentation according to OpenAPI specifications, reducing documentation time by 60% through custom Gradle tasks and plugins
- Refactored Punch API and wrote extensive unit tests using JUnit and Mockito, achieving a test coverage of 95% across all Punch service and method classes

### Lead Mobile App Developer

Apr. 2022 – Jul. 2023

*Branda*

*Waltham, MA*

- Oversaw a team of 15 student developers on a React Native mobile app used by over 1.6k users daily
- Increased code efficiency by integrating new API routes and configurations into the backend, enhancing scalability and reducing response times by 30% during peak usage periods
- Improved user experience on frontend by implementing a chat bot, revamping the hours page to auto-refresh, adding dark maps to shuttle tracking tab, and fixing miscellaneous bugs

### Computer Science Instructor Level II

Apr. 2022 – Jul. 2023

*Juni Learning*

*San Francisco, CA*

- Provided Python/Java lessons to students aged 8-16, fostering a passion for programming and technology
- Tailored teaching methods to suit individual skill levels, resulting in a 20% improvement in student comprehension
- Implemented effective record-keeping practices to monitor student progress and communicate with parents

## PROJECTS

### Trojan Horse Game | *Python, Pygame, Requests, Sys, Threading, OS, Subprocess*

Apr. 2024

- Implemented a trojan horse-style game that scrapes IP address, directories, files, processes, and system info
- Added an auto-send email feature with scraped info along with copies of any .pdf, .docx, or .txt files found
- Coded a Pygame with menus, navigation controls, backgrounds, pixel art icons, sound effects, and music

### Movie Portfolio Website | *HTML, CSS, Express.js, Javascript, MongoDB*

Jun. 2022

- Designed a portfolio website for a friend showcasing his films, animations, blog posts
- Included an admin login system to edit post titles and descriptions, add new posts, delete old posts
- Utilized a MongoDB database for storing post links and descriptions

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, Swift, HTML/CSS, SQL, Groovy

**Frameworks:** React, React Native, Express.js, Node.js, Expo, JUnit, Pytest, Mockito, Java Swing, SwiftUI

**Tools:** Git, Jira, Shell, npm, Yarn, Heroku, Confluence, VS Code, Xcode, PyCharm, IntelliJ, Eclipse, Sublime Text

**Libraries:** pandas, NumPy, Pygame, scikit-learn, D3.js, Matplotlib, Selenium