

James Kong

781-428-5342 | jameskong098@gmail.com | [linkedin.com/in/jamesdemingkong/](https://www.linkedin.com/in/jamesdemingkong/) | github.com/jameskong098

EDUCATION

Brandeis University

Master of Science in Computer Science (MS)

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

Waltham, MA

Aug. 2024 – May. 2025

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 on-site and virtual technical support to clients, managing up to 350 tickets per week
- Promptly tracked and resolved tickets using Jira with a 85% ticket resolution rate under 48 hours
- Facilitated the repair and re-imaging of staff and student devices, optimizing system performances

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

PROJECTS

AI Call Agent | *Python, FastAPI, Twilio, Pipecat, OpenAI/Ollama, Deepgram, Cartesia/Piper, Ngrok*

May. 2025

- Developed an AI call agent to manage simulated patient intake over phone calls
- Orchestrated conversational flows for gathering patient data, medical complaints, and simulating appointments
- Integrated address validation via Smarty API and automated email confirmations for appointment details

Home Gym App (Apple SSC Winner) | *SwiftUI, Vision, AVCaptureSession, Charts*

Jan. 2025 - Feb. 2025

- Built a native iOS/iPadOS fitness app using computer vision to track exercise form and count reps for 12 exercises
- Designed progress-tracking visuals with trend analytics and voice guidance system to improve user engagement
- Developed an achievement system with badges and customizable goals to motivate and reward user progress

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

Jun. 2022

- Designed and deployed 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, Flask, FastAPI, Express.js, Expo, JUnit, Pytest, Mockito, Java Swing, SwiftUI

Tools: Git, Jira, Shell, npm, Yarn, Node.js, Heroku, Confluence, VS Code, Xcode, PyCharm, IntelliJ, Eclipse

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