THOMAS KONG

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EDUCATION

New York University Tandon School of Engineering | 2020 - 2023
Bachelor of Science in Computer Science | Dean's List

Relevant Coursework: Databases, Machine Learning, Game Design, Human Computer Interaction, Object-Oriented Programming, Operating Systems, Robotic Manipulation & Locomotion, Robot Vision, Computer Architecture & Organization, Data Structures & Algorithms, Design & Analysis of Algorithms, Data Analysis, Discrete Mathematics, Security & Human Behavior, Java & Web Design

WORK EXPERIENCE

Vibrant Capital Partners I.T. Support Assistant   **August 2024 - Present**
- Developed network security solutions with shell scripting, enhancing company system protection
- Optimized data management and security analytics using Domain-Specific Language (DSL)
- Upgraded and configured Linux servers for company, improving system efficiency

BotBar Coffee NYC Freelance Software Engineer   **March 2024 - Present**
- Engineered a Python-based API to automate ADAM robotic coffee service for customers
- Optimized PostgreSQL database management, improving query performance
- Established cross-machine communication with Python serialization

StreetCred Labs Software Engineer Intern   **July 2020 - August 2020**
- Assisted in development of machine learning algorithm that improved spam image detection accuracy
- Contributed to daily standup meetings, refining Agile workflows
- Organized large datasets in Excel, streamlining data processing

New York City Department of Design & Construction Intern   **July 2019 - August 2019**
- Analyzed and processed large datasets in Excel, reducing reporting times
- Conducted onsite inspections and compiled construction insights

New York City Department of Buildings Intern   **July 2018 - August 2018**
- Maintained and operated the New York City Department of Buildings database, improving accessibility
- Created research-based project proposals for senior engineers

PROJECT EXPERIENCE

NuTracker Android App
- Led development of an nutrition tracking Android app built on Kotlin and XML to help users track food intake while utilizing Machine Learning models for food recognition and classification

Air Ticket Reservation System Website
- Developed a Flask-based airline booking system website that used Python, SQL, HTML, CSS to enable customers to search, book, and manage flights for over a 1,000 test transactions

Emotion Image Recognition Machine Learning Program
- Trained a deep learning model on 30,000+ grayscale facial images in classifying images into 7 emotions (anger, disgust, fear, happy, sad, surprise, and neutral) using Python & TensorFlow

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, Java, Kotlin, JavaScript
- **Front-End:** CSS, HTML, React, XML
- **Back-End & Other:** SQL, PostGreSQL, MongoDB, Node.JS, FastAPI, Flask, TensorFlow, OpenCV
- **Technical:** VS Code, Android Studio, Microsoft Excel, Jupyter Notebook, Google Colab, RobotC, AutoCad