

# 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:** Intro to Databases, Intro to Machine Learning, Intro to 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**

- Utilized Domain-Specific Language (DSL) for data management and security analytics
- Implemented and provided assistance for network security applications through shell scripting
- Installed and set up upgraded Linux servers for company

### **BotBar Coffee NYC Freelance Software Engineer**

**March 2024 - Present**

- Collaborated in building Python-based API for ADAM robot to serve customer's orders
- Contributed to organization's database in PostGreSQL using SQL
- Established communication between different machines with Python Serialization

### **StreetCred Labs Software Engineer Intern**

**July 2020 - August 2020**

- Assisted in development of machine learning algorithm to verify spam images
- Participated in standup meetings and coordinated with fellow team members
- Organized information and data through Excel programs

### **New York City Department of Design & Construction Intern**

**July 2019 - August 2019**

- Managed multiple Excel files to efficiently calculate data
- Performed onsite inspections and gathered informations in construction sites

### **New York City Department of Buildings Intern**

**July 2018 - August 2018**

- Operated data in the official NYC Department of Buildings database
- Provided research and created project proposals for senior engineers

## PROJECT EXPERIENCE

### **NuTracker Android App**

- Lead a team to build an Android app with the purpose of helping users identify their nutritional intake to promote healthier lifestyles using Kotlin and XML

### **Air Ticket Reservation System Website**

- Implemented a Flask web-based application that allows customer accounts to search for flights (one way or round trip), purchase flight tickets, and view their past and future flights using Python, SQL, HTML, and CSS

### **Emotion Image Recognition Machine Learning Program**

- Analyzed a dataset with over 30,000 images consisting of 48x48 pixel grayscale images of human faces
- Created and trained a Python-Based Machine Learning algorithm capable of categorizing images into seven different emotions (anger, disgust, fear, happy, sad, surprise, and neutral)

## SKILLS

- **Programming Languages:** Python, C++, C, Java, Kotlin, JavaScript, NodeJS, SQL, CSS, HTML, XML
- **Technical:** Visual Studio Code, Android Studio, Microsoft Visual Studio, Microsoft Excel, Jupyter Notebook, Google Colab, RobotC, AutoCad, AutoCad Inventor