Shang Ke

Phone: +1 9176019783 | Email: sk7090@nyu.edu | Linkedin: linkedin.com/in/shang-ke | GitHub: github.com/ksmaybe

Education

NEW YORK UNIVERSITY

M.S. Computer Science **MAY 2020 – DEC 2021**

B.A. Computer Science with Mathematics Minor **SEP 2017 - MAY 2020**

GPA: 3.71 Cum Laude | Dean's List

Coursework: Operating Systems, Artificial Intelligence, Distributed Web Applications, Data Analysis, Financial Information Systems, Risk Management in IT, Cloud Computing, Computer Networking, Big Data Processing, Machine Learning Systems, Information Security Privacy, Network Security, Application Security, Databases

Work Experience

NYU COURANT INSTITUTE OF MATHEMATICAL SCIENCES **SEP 2020 - PRESENT**

Computer System Organization Course Assistant *New York*, NY

· Assist professor in teaching computer architecture and machine language programming

· Grade and give feedback on students' assignments and projects

SPLASH (SPLASHTHAT.COM) **MAY 2019 – AUG 2019**

Splash is an Event Marketing Software company serving Facebook, Amazon, Google, and other Fortune 500 firms

Implementation Intern *New York, NY*

· Migrated clients' designs to new RSVP platform with more intuitive UI and features

· Integrated RSVP platform with Salesforce, Twitter, and Slack API through Zapier for greater client convenience

· Designed and coded Selenium Chrome bot with Python to automate testing of RSVP platform which caught four UI bugs while simulating client usage

Military Leadership Experience

SINGAPORE ARMED FORCES **FEB 2015 - DEC 2016**

Non-commissioned Officer | Military Rank: 3rd Sergeant | *Combat Position: Reconnaissance Commander*

· Trained and managed 108 soldiers in military drills, physical fitness, and overseas deployments and received the Best Unit Award from Brigade Colonel for best performance in the Brigade

· Commanded section of 7 soldiers to complete strike missions and gather enemy intelligence in foreign territory

Hackathons & Projects

Human Specific Logic CAPTCHA **MAY 2020 – PRESENT**

· Designing a user-friendly method to proof human usage of web application while stopping bots accurately

· Utilizing human-friendly puzzle to deter Machine Learning circumvention (Monkey: Banana, Cat: Fish, Dog: Bone)

Creating puzzles with multiple layers of logic that are intuitive for humans but difficult for ML models

Obstacle Visual Detector | Python, Node.js, Clarifai API, Webcam **MAY 2020 – PRESENT**

· Improving computer-vision project which won 3rd place in NYU Superhack 2018

· Building Python Flask app that analyzes webcam footage to assist visually impaired people in navigation, object and color identification through audio feedback with latency below 0.3 seconds

· Training Clarifai custom ML model with labeled images to reach object recognition accuracy above 89%

HackMIT 2018 IBM Call for Code @ MIT **SEP 2018**

1st Place Winner | Python, SQLite, Javascript, IBM Watson NPL API, Twitter API, Google Graph

· Designed Python Flask app which analyzed live Twitter feeds during Hurricane Florence to plot accurate disaster heatmap using location data and sentimental analysis with high similarity to FEMA estimations

· Worked in a team to build a Watson AI Chatbot to communicate with victims using typed English

Clinton Foundation Codeathon 2018 @ U. Chicago **OCT 2018**

2nd Place Winner as IBM Delegate

· Utilized Blockchain to create a donation matching system that subsidizes local businesses after natural disasters

Skills

Programming Languages: Python, C/C++, Java, SQL, HTML, CSS, JavaScript
Libraries: Node.js, Hadoop, Flask, Numpy, Selenium, Salesforce, Zapier, Docker
Systems & Tools: Ubuntu, CentOS, Windows, AWS, Azure, Git, Github
Foreign Languages: Chinese, Korean