

# Shang Ke

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## Education

**NEW YORK UNIVERSITY, COURANT INSTITUTE OF MATHEMATICAL SCIENCES**

**SEP 2017 - MAY 2020**

**B.A. Computer Science** with *Mathematics Minor*

*New York, NY*

**GPA: 3.7** | Dean's List

Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Artificial Intelligence, Large-scale Web Applications, Data Analysis, Financial Information Systems, Risk Management in IT

## Work Experience

**SPLASH (SPLASHTHAT.COM)**

**MAY 2019 - AUG 2019**

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

**NYU TANDON SCHOOL OF ENGINEERING**

**DEC 2018 - APR 2019**

**Computer Vision Research Assistant**

*Brooklyn, NY*

- Wrote different architectures of convoluted neural networks from scratch in Python which improved Computer Vision accuracy of identifying handwritten numbers by up to 96%
- Analyzed neuron layer patterns and cut time to train models by 60% while maintaining similar accuracy

**NYU ELMER HOLMES BOBST LIBRARY**

**FEB 2018 - PRESENT**

**Desktop Support Lead Student Assistant**

*New York, NY*

- Provide quick customer support in troubleshooting school's IT infrastructure while training new student hires

## Skills

Programming Languages: Python, C/C++, Java, SQL, HTML, CSS, JavaScript

Libraries: Node.js, Flask, Numpy, Selenium, Salesforce, Zapier

Systems & Tools: Ubuntu, CentOS, Windows, AWS, Azure, Git, Github

Foreign Languages: Chinese, Korean

## Hackathons & Projects

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

**SEP 2018**

**1<sup>st</sup> 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**

**2<sup>nd</sup> Place Winner** as IBM Delegate

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

**NYU IVS AI SuperHack 2018 @ NYU**

**NOV 2018**

**3<sup>rd</sup> Place Winner** | Python, Node.js, Clarifai API

- Programmed 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
- Trained Clarifai custom Machine Learning model with labeled images to reach object recognition accuracy of 87%

**Automated Coffee Brewer** | Node.js, IFTTT

**MAY 2019**

- Linked Google Home with coffeemaker through Raspberry Pi to brew coffee at requested time or with voice

## Leadership

**SINGAPORE ARMED FORCES**

**FEB 2015 - DEC 2016**

**Non-commissioned Officer** | Military Rank: 3<sup>rd</sup> 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