Shang Ke

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EDUCATION

NEW YORK UNIVERSITY, COURANT INSTITUTE OF MATHEMATICAL SCIENCES   **SEP 2017 - MAY 2020**

· B.A. Computer Science
· GPA: 3.82/4.0 (Dean's List)
· Relevant coursework: Data Structure and Algorithms, Object Oriented Programming, Data Analysis, Artificial Intelligence, Game Programming, Discrete Mathematics, Financial Information Systems, Risk Management in IT
· Current coursework: Linear Algebra, Computer System Organization, Basic Algorithms

PROJECTS

HackMIT 2018 IBM Watson AI Disaster Relief Challenge (1st Place Winner) | MIT   **September 2018**

· Coordinated a team of 4 and employed IBM Watson NPL tools that analyze live Twitter feeds to plot accurate natural disaster heatmap using location data and sentimental analysis through Python and SQLite

· Built Firebase Database that collects information on disaster victims using Watson Chatbot with Natural Languages while providing them advise for recovery efforts in preferred language

· Sorted the collected data into figures and graphs through Google Graph on custom website that help authorities prioritize manpower and resources

Clinton Foundation Codeathon 2018 (2nd place Winner as IBM Delegate) | Uni. of Chicago   **October 2018**

· Led a team of 5 to build a system that uses donations to subsidize reconstruction efforts post-disaster for financially-strapped victims based on location data matching

· Promoted small local businesses to contain cash flow in respective communities for long-term economic recovery goals

· Proposed blockchain solution to create a ledger of subsidized transactions for transparency and accountability to donors

NYU IVS AI SuperHack 2018 (3rd place Winner) | NYU   **November 2018**

· Led a team of 5 to build a Python Computer Vision solution that assists visually-impaired people on navigation and object/color identification

· Captured footage on webcam and analyze in real-time through Node.js server to provide audio feedback to user

· Trained Clarifai custom Machine Learning model to recognize objects, obstacles, humans, and traffic conditions

EXPERIENCE

Computer Vision Research Assistant | NYU Tandon School of Engineering, New York   **Dec 2018- Present**

· Configure and test different architectures of convoluted neural networks in Python to improve Computer Vision accuracy

· Identify and analyze neuron layer patterns as well as their associated efficiency and applications

Desktop Support Technician | NYU Elmer Holmes Bobst Library, New York   **Feb 2018- Present**

· Resolve technical difficulties and maintain system integrity of NYU's IT system

· Provide customer service to library patrons and staff

Non-Commissioned Officer | Singapore Armed Forces, Singapore   **Feb 2015- Dec 2016**

Military Rank: 3rd Sergeant / Combat Position: Armored Vehicle Commander & Reconnaissance Section Commander

· Commanded section of 7 soldiers to complete strike missions and gather enemy intelligence using various Armored Vehicles

· Trained and managed schedule of 108 to optimize combat efficiency

· Liaised with external departments to plan training courses and military deployment

SKILLS

Programming Languages: C/C++, Python, SQL, HTML, CSS, JavaScript, Node.JS, Flask

Systems: Ubuntu, CentOS, AWS, Azure, Windows

Foreign Languages: Chinese, Korean