

Education

- **New York University** New York, USA
Master of Science in Computer Engineering Aug. 2017 – Present(Expected **May 2019**)
Relevant Courses: Data Structure & Algorithms, Principles of Database System, Operating System, Intro to Java, Computer System & Architectures, Data center and Cloud Computing, Internet Architecture and Protocols
- **Tianjin University** Tianjin, China
Bachelor of Engineering in Measuring and Controlling Technology and Instruments Aug. 2013 – Jul. 2017

Skills

- **Programming Languages:** Java, Python, C++, PHP, JavaScript, HTML, CSS
- **Software & Tools:** AJAX, AWS, BootStrap, Flask, Git, Linux, SQL, Node.js, OpenCV, React, TensorFlow

Work Experiences

- **Visualization and Data Analytic Laboratory, New York University** Brooklyn, New York
Software Engineer Intern Sept. 2017 - May 2018
 - Avoided gradient vanishing by implementing **Convolution Neural Networks (CNNs)** and **Long Short-Term Memory(LSTM)** in pose estimation using **TensorFlow**, leading to 15% increment in average accuracy;
 - Reduced rendering time from 4 minutes to 3 seconds by designing a real-time data visualization website based on **OpenCV**, **React** and **Flask** framework in **Python** to render joints trajectories in videos;
- **Visual Computing Center, King Abdullah University of Science & Technology** Saudi Arabia
Virtual Reality Research Intern Feb. 2017 - Jun. 2017
 - Increased the material utilization rate by 40% by modifying objects structures using CAD and improving 3D printing algorithms using **C++**;
 - Designed **Virtual Reality(VR)** toolkit in **Unity3D** for customizing VR controllers of various scenes by implementing Arduino electronics and 3D printing objects;

Projects

- **Full Stack Development – Jobster** Group Project of Principle of Database
A database-backed website which is similar to LinkedIn Jun. 2018
 - Designed and decorated a web application with **HTML**, **CSS**, **JavaScript** and **BootStrap** framework;
 - Implemented **RESTful APIs** for website services and **AJAX** for data cleaning and transformation;
 - Connected and modified relational database using **PHP** and deployed on **AWS Elastic Beanstalk**;
 - Implemented a relational database using **MySQL** to storage user data and job information;
- **Python Web Application Development** Personal Web Development Project
Real-time video data visualization application Jan. 2018
 - Captured and rendered joints trajectories using **OpenCV** and **Python** for each frame of input videos ;
 - Designed a website based on **Flask** framework and implemented **AJAX** to support data transformation;
 - Loaded video data and **JSON** files from **MongoDB** using PyMongo library in **Python**;
- **3-Stage Pipeline MIPS with Branch Predictor** Personal Simulation Project
Computer architecture simulation project Jun. 2017
 - Simulated an instruction-level single cycle MIPS processor and multilevel LRU cache;
 - Programmed five stages of instruction execution in **C++** to execute R, I, J type instructions;
 - Implemented write back, write through, write allocate policies for cache simulating;