

Machine Learning Engineer · Researcher San Jose, California 🛘 (+1) 917-216-5346 | 💌 xin.gao.njit@gmail.com | 🌴 web.njit.edu/x̄g54 | 🖸 stella-gao | 🛅 stella-gao Skills ____ Python · R · SQL · Bash · C++ · Java · Matlab · JavaScript · HTML · LaTeX Languages $NumPy/Pandas/Matplotlib \cdot Tensorflow/Keras \cdot Scikit-learn \cdot OpenCV \cdot Docker \cdot Unix \cdot Git \cdot Android Studio \cdot Tableau \cdot Qt$ Tools Deep Learning · Machine Learning · NLP · Computer Vision · Software Engineering Knowledge Education **New Jersey Institute of Technology** Newark, NJ Ph.D. Computer Science (Research: Deep Learning, Machine Learning) 2012 - 2018 Nankai University Tianjin, China **B.E. COMPUTER ENGINEERING** 2008 - 2012 Work Experience _ **SAIC Innovation Center** San Jose, CA MACHINE LEARNING ENGINEER Nov 2018 - present · Designed a deep learning model for autonomous vehicle for detecting driver sleepiness based on sensor data from ECG, steering wheel and video cameras. For dataset annotation used EEG data. • Designed a deep learning model for intelligent vehicle AC control system. Implemented a deep learning model for speech recognition system based on NLP methods. NIO San Jose, CA MACHINE LEARNING ENGINEER INTERN Jun 2017 - Aug 2017 • Developed a real-time FaceID system for driver and passenger recognition for self-driving car. Achieved a precision of 96.65% at 23fps. • Implemented the system with C++ based on MTCNN, FaceNet and SVM methods to get a speed 5 times faster than python version. **HERE Technologies** Chicago, IL **DATA SCIENCE INTERN** Jun 2016 - Sep 2016 • Designed algorithms for predicting traffic congestions on intersections (filed 2 patents). • Statistical and quality analysis on Signal Phasing and Timing data with R and Tableau. • Implemented a SPaT Distributed Computing Platform with Kafka and AWS EC2. **Futurewei Technologies** Bridgewater, NJ RESEARCH INTERN Jun 2014 - Aug 2014 Designed algorithms for virtual network embedding in Software Defined Network in R and C++ for Shannon Research Lab. • Improved the network throughput by parameter tuning to provide better bandwidth allocation for large flows. Selected Publications 2018 Xin Gao, Deep learning methods for mining genomic sequence patterns Ph.D. Dissertation Xin Gao, et al., DeepPolyA: a convolutional neural network approach for polyadenylation site prediction 2018 **IEEE Access** 2018 Xin Gao, et al., tRNA-DL: A Deep Learning Approach to Improve tRNAscan-SE Prediction Results **Human Heredity** 2018 Xin Gao, et al., Deep Learning for Sequence Pattern Recognition IEEE ICNSC 2014 Xin Gao, et al., Detection of transportation mode based on smartphones for reducing distracted driving ACM MobiCom 2014 Xin Gao, et al., ARPP: An Augmented Reality 3D ping-pong game system on Android mobile platform IEEE WOCC Patents _ US 10,181,263, Method for Estimation of Road Traffic Condition Using Traffic Signal Data 2019 HERE 2018 US 10,127,811, Method for Comprehensive Management of Signal Phase and Timing of Traffic Lights HERE 2016 US 62/395,090 (pending), Systems and Methods for User Matching Based on Face Recognition **NJIT Honors & Awards** Best Conference Paper Finalist, IEEE International Conference on Networking, Sensing and Control 2018 1st Place at Data Networking Poster Award, IEEE North Jersey Advanced Communications Symposium 2014 2011 1st and 2nd term Scholarship Award, Nankai University Dean's List of Distinguished Students Fellowship, Tianjin Experimental Middle and High School 2008 2005 2nd Prize, National Mathematics Olympiad (middle school level)

1st Prize Top 10, National Mathematics Olympiad (primary school level)

Level 4 Expert Certificate, National Abacus and Mental Arithmetic Contest

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