Zibo Zhang

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EDUCATION

New York University   New York City, NY
M.S. Computer Engineering   *Expected Graduation: May 2021*
· Courses: Data Structure & Algorithms, Computer System Architecture, Internet Architecture & Protocols, High Speed Network,
Database & SQL, Datacenter & Cloud Computing, Machine Learning, ML for cybersecurity, Data Science for Business   **GPA: 3.9**

University of California, San Diego   La Jolla, CA
B.S. Environmental Engineering   *May 2018*
· Courses: Calculus, Linear Algebra, Matlab, Computational Math, Probability, Statistics, Fluid Mechanics, etc.

TECHNICAL SKILLS

· **Programming**: Python, C, C++, JS/ES6, UNIX Shell, HTML5, CSS3, SQL, mySQL
· **Machine Learning**: Numpy, Pandas, Scikit-Learn, PyTorch, TensorFlow, Keras, NLTK, Gensim, CoreNLP
· **Framework**: Python Django, Flask
· **Development Tools**: Git, Kubernetes, Docker, Hadoop, AWS

EXPERIENCE

Alibaba Cloud   Chengdu, China
Software Development Engineer Intern   *Jun 2019 - Sept 2019*
· Prototyped and developed RESTful APIs, tested with Postman and shell scripts.
· Developed a Deep Neural Network text classifier with CNN architecture for news articles using TensorFlow and Keras, achieving a
99% accuracy by researching and improving upon StanfordNLP, Gensim, NLTK, and NLP academic papers.
· Developed ETL scripts to extract raw news articles from internal and external APIs, transform (cleaning, segmentation, labeling) for
NLP training, and load into MySQL database.
· Automated Word2Vec models training and update with Python for downstream NLP tasks, saving 80% maintenance time.
· Wrote API documentation; composed demos & technical deliverables for clients; managed client meetings.

New York University   New York, NY
Graduate Teaching Assistant   *Aug 2020 - Present*
· Created lab code repositories for Data Center & Cloud Computing course covering Linux, SDN, Wireshark, Mininet, RYU, Hadoop,
AWS, Google Cloud, and Kubernetes.
· Co-created lab presentation, lecture recordings; managed lectures and lab sections.

Graduate Research Assistant   *Jan 2020 - May 2020*
· Researched on high-performance, low-latency transport protocols, explicit congestion controls, and VoIP loss control algorithms.

PROJECTS

· Research archives, project docs, and technical blogs built on Jekyll with customized CSS styling, published with Github Pages.
· MIPS 5 Stage Pipelined Processor Simulator & Branch Predictor with C++.
· CNN & RNN Deep Neural Network Text Classifier for news articles in Chinese with Python Keras & TensorFlow.
· FGSM adversarial attacks on a DNN image classifier, and retraining of the DNN model to defend against attacks.
· Full Stack Mock Website developed with MySQL, Python Flask, HTML, CSS, JS with RESTful APIs, jQuery Ajax, and Bootstrap.
· SDN controller programs with RYU to dynamically generate and install flow entries to switches with simple load balancing.
· SDN traffic engineering simulation and analysis with Docker.

LINKS

Personal Website: tonyzhang95.github.io   LinkedIn: linkedin.com/in/zibozhang/   Github: github.com/tonyzhang95