Weimeng **Pu**

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Education

San José State University *San José, CA*

B.S. IN COMPUTER SCIENCE, HONORS(EXPECTED) *Aug 2014 - (Exp)May 2018*

Major GPA: 3.906/4.0

Experience

Data Science / NLP Intern

ITS ENTERPRISE SOLUTIONS, SJSU *Feb 2017 - PRESENT*

- Preprocessing address data to help with the prediction of enrollment decisions of admitted students.
- Building the pipeline of predictive analytics based on a web-based student performance monitoring system that provides automated student services and communication between faculty, advisors and tutors.
- Classifying and categorizing support tickets from the service department.

Lab Instructor

CS 46A (INTRODUCTION TO PROGRAMMING) *Jan 2017 - PRESENT*

- First-year computer science course learning basic skills and concepts of computer programming.

Teaching Assistant

CS 49J (PROGRAMMING IN JAVA) *Jan 2017 - PRESENT*

- Second-year computer science course learning a number of important Java topics and libraries.

Computer Science and Mathematics Tutor

COLLEGE OF SCIENCE, SJSU *Aug 2016 - Dec 2016*

Projects

Extended Kalman Filter (C++)

SENSOR FUSION *Mar 2017*

- Implemented an extended kalman filter and tested it on preprocessed laser-radar measurements.

Vehicle Detection and Tracking (OpenCV, Python)

COMPUTER VISION *Feb 2017*

- Wrote a pipeline to detect and track vehicles in a video from a front-facing camera on a car.
- Performed histogram of oriented gradients feature extraction on a labeled training set of images.
- Trained a Linear SVM classifier to search for vehicles using sliding windows and estimated bounding boxes for vehicles detected.
- Created heat maps of recurring detections frame by frame to reject outliers and followed detected vehicles.

Lane Lines Finding (OpenCV, Python)

COMPUTER VISION *Jan 2017*

- Wrote a pipeline to identify the lane boundaries in a video from a front-facing camera on a car.
- Applied camera distortion correction, color transforms, gradients and perspective transform to detect lane pixels.
- Output visual display of the lane boundaries and numerical estimation of lane curvature and vehicle position.

Car Behavioral Cloning (Keras, OpenCV, Python)

COMPUTER VISION *Dec 2016*

- Used a simulator to collect data of different driving behavior.
- Implemented convolution neural network in Keras to predict steering angles from image data.
- Tested the model to successfully drive around track autonomously in the simulator without leaving the road.

Traffic Sign Recognition (TensorFlow, OpenCV, Python)

COMPUTER VISION *Nov 2016*

- Trained a simple convolutional neural networks to classify traffic signs from the German Traffic Sign Recognition Benchmark (GTSRB) dataset with 91% accuracy.

Examining Worldwide Income Inequality (R, SQL)

DATA SCIENCE *May 2016*

- Applied Multiple Linear Regression to examine various development indicators from the World Bank and discovered how they influence income inequality as measured by the GINI index.
- Was the only project from the course that had been awarded in the competition.

Honors & Awards

2016	**3rd Place**,	American Statistical Association Undergraduate Statistics Class Project Competition
2016	**The Google Games Bay Area Coding Winner**,	Google
2014	**Humanities Honors Program**,	San José State University (top admitted students)
2012	**Outstanding Presentation Award**,	Harvard AUSCR China Thinks Big Competition