

Ajin Sunny

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GitHub: github.com/ajinsunny

Portfolio: leetcode.com/4j1n

TECHNICAL SKILLS

- **Proficient:** Python, TensorFlow, OpenCV, C++, JavaScript, HTML5, CSS3, Git, SVN
- **Exposure:** Machine Learning (CNNs), SQL, SQLite, Flask, Java, GoLang, C, MATLAB, Simulink, PHP

WORK EXPERIENCE

Stealth Startup Inc. | Software Development Engineer | San Francisco, CA March 2020 - Present

- Mentored 20+ students and professionals in CS Fundamentals for development of individual software projects.
- Assisted 10+ students and professionals on data structures and algorithms with 1:1 technical coaching sessions in Python, C#, Javascript, and C++.
- Built software pipeline for server-client communication using multithreaded socket programming in Python.

University of Kentucky | Software Development Engineer | Lexington, KY Jan 2018 - Dec 2019

- Programmed and built the software pipeline in Python and C++ that ran a decentralized control algorithm for the electromagnetic system of a small satellite with a steady-state error of approximately 0%.
- Developed the decentralized control algorithm that measured the relative position and velocity of the prototype using LiDar sensors and PIC microcontrollers with a measurement accuracy of $\pm 3\%$.
- Reviewed C++ code for sinusoidal actuation and developed a custom actuation technique with new changes submitted for the decentralized control algorithm.
- Acquired, tested, and analyzed 100+ experimental data sets using Python, Numpy, Matplotlib, Seaborn, MATLAB, and Github that contributed to achieving a final steady-state error of approximately 0%.

University of Kentucky Solar Car Team | Electrical Engineer | Lexington, KY Aug 2013 - Aug 2015

- Performed data acquisition and analysis using Python for battery temperature, battery voltage, battery current which helped in maximum power point tracking of the solar cells.

EDUCATION

Master of Science in Mechanical Engineering, University of Kentucky Dec 2019

Bachelor of Science in Electrical Engineering, University of Kentucky May 2017

PROJECT WORK

Udacity | Software Engineer Jul 2020 - Present

Online Learning Platform for industry professionals to pursue life-long learning of the chosen industry path.

- Completed Introduction to TensorFlow for Deep Learning and Introduction to Computer Vision.
- Self-Driving Car Engineer Nano Degree program: Completed Lane Line Finding Project.

Education - Google AI | Software Engineer Jun 2020 - Present

Online Learning platform for anyone to learn the fundamentals to develop Machine Learning skills.

- Completed Machine Learning Crash Course with TensorFlow APIs to develop machine learning projects.
- Developed skills such as Image Classification, Transfer Learning, NLP: Tokenization and Embeddings and Recurrent Neural Networks(RNN), Convolutional Neural Networks(CNN).

Codecademy Data Science | Data Scientist | [live](#) Feb 2019 - Mar 2019

Online Data Science program for Python developers to learn within a community of Software Engineers.

- Pursued foundational data science and data visualization concepts to understand machine learning.
- Visualized World Cup data using Matplotlib and Python's Seaborn packages to gain insights on football trends.
- Compared survey responses of election results with actual results using Numpy to determine the variance.

LEADERSHIP + AWARDS

Graduate Assistantship, University of Kentucky 2017

IEEE 24 hour Extreme Competition, University of Kentucky 2014