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github.com/datlife

DAT NGUYEN

US Citizen
(408) 646 9337

Objective

An entry-level/internship opportunity to allow me utilize my software engineering skillset. I have a solid background in CS fundamentals, strong willingness to learn and work well in a team environment.

Relevant Experience

Jan. 2018 – Present **Software Engineering Intern** **Freedge.org – Food sharing platform**

- Expanding a fridges network to allow people sharing leftover food with their communities.
- Deployed to 20 different locations *around the world*.
- Current owning the whole software stack for automating inventory monitoring process through applying computer vision, IoT, Cloud Computing (Node-RED/Kafka/Grafana/TensorFlow).

Summer 2018 **Machine Learning Research Scholar** **University of California, Berkeley**

- Successfully implemented a bi-directional LSTM radio receiver, running 40x faster than traditional Viterbi algorithm for correcting Convolution Code.
- Worked with graduate students, advised by Prof. Anant Sahai, to conduct research on potential deep learning applications for modern communication.

Summer 2017 **Robotics Scholar** **Carnegie Mellon University**

- Implemented a deep learning model for Automated Road Quality Monitoring System. The technology was later acquired by a tech startup *RoadBotics*.
- Published a journal paper in "Robotic Institute Summer Scholars Journal 2017".

Summer 2016 **IR Camera Research Scholar** **North Carolina A&T University**

- Implemented "*Thermographic Signal Reconstruction*" algorithm, primarily used in aerospace industry to quickly estimate defects inside material (non-destructive testing).

May 2014 – Sep 2015 **IT Support Analyst** **Genomic Health Inc.**

- Worked in a team of 12 as an individual contributor to provide IT services to 900 employees

Highlighted Projects (more at https://github.com/datlife)

Oct. 2018 – Present **Memetastic** github.com/ecs189/memelify

- Worked in a team of three to develop an iOS App for delivering memes to UC Davis students
- Developed an API service to stream data from multiple data sources (Facebook, Reddit, 9GAG).

Dec 2016 – Apr 2017 **Jetson Car** (120★) github.com/datlife/jetson-car

- Converted a toy 1/10 RC car to race autonomously in an in-house track through Deep Learning.

Apr 2017 – July 2017 **YOLOv2** (40★) github.com/datlife/yolov2

- Ported C++ codebase from Darknet to Python code and successfully trained on custom dataset.

Technical Skills

- **Languages**: Python, C/C++, JavaScript, Swift, Golang (familiar), Java (familiar).
- **Machine Learning**: TensorFlow/Keras, ROS, OpenCV.
- **Web/Mobile**: RESTful API, GraphQL, React, SASS, Flask, PostgreSQL, MongoDB, iOS Dev (familiar).
- **Others**: Git, Docker, SQL, basic UNIX scripting.

Education

December 2019 **University of California, Davis** Computer Science, B.S.

Class of 2017 **De Anza Community College** Computer Science, A.S.

Honors

August 2016 **National Science Foundation (NSF) Scholarship Recipient**

June 2014 **First-generation College Student Scholarship Recipient**