

Galen Wong

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📄 github.com/GalenWong

EDUCATION

University of California, Los Angeles

Bachelor of Engineering in Computer Science

Los Angeles, CA

Expected June 2021

- GPA: 3.99/4.0, Honors/Awards: Dean's List Winter 2018, Dean's List Fall 2018
- Courses: Algorithm and Data Structure, Operating System Principles, Deep Learning and Neural Networks, Quantum Computing, Medical Imaging
- Awards: Hong Kong Scholarship for Excellence Scheme (\$128000 scholarship in total)
- Skills: Python, Keras, PyTorch, C/C++, JavaScript, HTML/CSS, git, Node.js, React.js, Go

RESEARCH EXPERIENCE

Deep Learning Applied to the Diagnosis of Thyroid Eye Disease

Research for CS 168 Introduction to Medical Imaging course

UCLA

March 2020 - June 2020

Advisor: Justin Karlin, Fabien Scalzo, Paper: <https://git.io/JJp8T>

- Demonstrated viability of deep learning method at detecting Thyroid eye disease
- Augmented models from ImageNet to work with non-square images while retaining the ability to transfer over convolutional layer parameters using PyTorch
- Experimented with various generalization techniques, including, snapshot ensemble, cyclic learning rate, antialiasing, achieving a 95.97% validation accuracy

Classification of EEG Signals with Deep Learning

Research for EE C147 Deep Learning & Neural Network course

UCLA

January 2020 - March 2020

Paper: <https://git.io/JJp6u>

- Evaluate the performance of different neural network architecture on classifying brain cell signals
- Designed an architecture with both a LSTM and a CNN components to improve training accuracy using Keras
- Investigate the impact of subsampling data on accuracy of the model

PROFESSIONAL EXPERIENCE

Bloomberg

Software Engineering Intern (Site Reliability)

Hong Kong

June 2020 - August 2020

- Designed and built a Python framework for chaos engineering, which emulates a distributed network system using docker on one single machine to replicate failure scenario in production environment
- Developed a command line interface for the framework with heavy focus on developer experience, supporting YAML-based configuration of network topology with auto-complete support and interactive browser-based visualization
- Reproduced a production issue to uncover unforeseen memory leak issue, and saved it as a replayable snapshot

Tencent

Software Engineering Intern

Shenzhen, China

April 2020 - June 2020

- Upgraded all internal CI platform source code, bumping up Angular by 2 major releases and TypeScript by 1 major releases.
- Built a Jest testing platform with Nest.js to be part of the CI pipeline, with support for test result notification via messaging application, test result and coverage report web GUI, and a set of API for integration with other pipelines
- Designed and implemented a frontend dashboard for managing over 1400+ backend microservices for better management, with a set of configurable graph APIs to showcase status of key migration goals

Notey

Software Engineering & Data Science Intern

Hong Kong

June 2019 - September 2019

- Built a Chrome extension based on React to test a website's access speed in the US and China.
- Derived a method to quantify the impact of dynamic Ajax rendering on a page using Selenium Web Driver
- Compared the impact of Ajax rendering, website speed, languages, and Lighthouse performance score in relation to its ranking on US and Chinese search engines.

LEADERSHIP EXPERIENCE

ACM Hack

Officer/Curriculum Director

Feb 2018 - Present

- Spearheaded a beginner-friendly Python workshops, helping 100+ learn basic Python. QA all workshops and provides feedback to presenters. Check out our lessons here: github.com/uclaacm/learn.py-s19
- Started a new workshop series on intermediate **JavaScript** covering topics such as event loop, advanced React, function scopes, etc. Check out the series here: hack.uclaacm.com/posts/fall2019/js-chats-summary
- Organized the biggest beginner-friendly hackathon in UCLA (hoth.splashthat.com)