

Theodore Chiu

theochiu.me@gmail.com | theochiu.github.io | linkedin.com/in/theochiu/

SKILLS

- Software Development (Java, Python, C, C++, embedded C)
 - Systems design: Digital circuits, embedded systems, ASIC/FPGA design (SystemVerilog)
 - Data Analysis: classification, regression, clustering, dimension reduction
 - Machine Learning: Intermediate understanding of neural nets (Pytorch), Q-Learning (KerasRL) and Bayesian networks
 - Hardware engineering: PCB design(OrCad/PSPice, Eagle, KiCad), Soldering/Hot air rework
-

EXPERIENCE

Luna Innovations

Blacksburg, VA

Systems Engineer

2022 - Present

- Systems engineer in Lightwave Division supporting bleeding edge research of fiber optics
- Helped design software for fiber optic instruments that utilized Rayleigh backscatter OFDR (C++)
- Microsoft HoloLens development for interactively displaying data (Unity & C#)
- Design calibration and testing tools for optical shape sensing
- Implemented software redesign to optimize an embedded system by offloading Fourier Transforms to DSP's

Heroes Jobs

San Francisco, CA

CS Intern

Summer 2019

- Worked in an early stage startup as an intern leveraging software design and automation to optimize rapid growth in order to secure next round of funding
- Created libraries and scripts to automate social media presence that lead to an increase in user-acquisition
- Created internet scrapers to mine data from various databases to identify and target potential users
- Analyzed user characteristics and behaviors to identify trends in userbase

Stanford Cognitive Systems and Neuroscience Lab – Stanford University

Palo Alto, CA

Intern

June – November 2016

- Worked in research lab environment as an intern to a post doctorate fellow assisting in research
 - Implemented scoring algorithm and optimized UI for screener game designed to help children with dyscalculia.
 - Collected and streamlined screener data for later analysis.
-

EDUCATION

Bachelor's Degree in Computer Engineering

Purdue University, West Lafayette, IN

REFERENCE: Upon request