

# Theodore Chiu

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## **EDUCATION**

### **Purdue University**

*B.S. Computer Engineering*

**West Lafayette, IN**

*2017 – 2021*

Linear Circuit Analysis (ECE 201 & 202), Data Structures (ECE 368), Artificial Intelligence (ECE 473), ASIC Design (ECE 337), Advanced C (ECE 264), Digital Systems Design (ECE 270), Ordinary Differential Equations (MA 266), Object Oriented Programming (ECE 39595), Operating Systems (ECE 469), Microprocessor Systems and Interfacing (ECE 362)

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## **EXPERIENCE**

### **Luna Innovations**

*Systems Engineer*

**Blacksburg, VA**

*2022 - Present*

- Systems engineer in Lightwave Division supporting bleeding edge research of fiber optics
- Helped design software for fiber optic instruments 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**

*CS Intern*

**San Francisco, CA**

*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**

*Intern*

**Palo Alto, CA**

*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.
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## **SKILLS**

- Java (Strong), Python (Strong), C (Strong), Matlab (Proficient), JavaScript (Familiar), Git (Strong), HTML (Strong), CSS (Familiar), Microsoft Office (Strong), OrCAD/PSpice (Familiar), System Verilog (Strong), Soldering/Hot air rework (familiar), Embedded Systems (Strong), PCB design (familiar)