

Samuel Lee

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Education

August 2018 | **Vanderbilt University | Bachelor's in Computer Science, Math, Hon Performance**
May 2022
 > **GPA** : 3.85
 > **Awards** : Vanderbilt Academic Achievement Scholarship | Nat. Merit Scholarship
 Data Structures Algorithms Software Design Linear Algebra Statistics Linear Optimization

Professional Experience

July 2020 | **FringeAI | AI Engineer Intern, Boston, MA**
Present
 > Designed and implemented new factory inspection pipeline, achieving **2.5x** speed and **1.2x** accuracy over existing pipeline by using **Fully Convolutional Networks**
 > Demonstrated advantages of using Fully Convolutional Networks over Mask RCNN (state of the art) for controlled inspection applications
 > Partnering with supervisor to migrate company workflow to Tensorflow 2.2
 > Implemented performance improvements in existing inspection pipeline
 Keras TensorFlow 2.2 TF Object Detection API OpenCV Jupyter Docker Google Cloud Platform

June 2020 | **Vanderbilt University Data Science Institute | Summer Research Fellow, Nashville, TN**
August 2020
 > Designed and implemented code for experiments exploring individual differences in human visual object recognition with deep learning and correlation analysis
 > Implemented convolutional neural network architecture to model human vision
 > Examined effects of different image perturbations, weight initializations and data shufflings on neural networks' internal representation space
 Singularity SLURM Python Keras TensorFlow 2.2 Jupyter Canonical Correlation Analysis

August 2019 | **Vanderbilt University School of Engineering | Teaching Assistant, Nashville, TN**
April 2020
 > Assisted over 200 students in learning to implement **data structures with C++**.
 > Wrote test code for assignment grading scripts
 > Held twice-weekly office hours, provided feedback on assignments
 C++ Data Structures Clion

Campus Involvement

July 2020 | **VandyHacks | Development and Content Team Member, Nashville, TN**
Present
 > Wrote and deployed promo website for Vanderbilt's annual hackathon, hosting over 600 students from 68 schools across the U.S
 > Designed and taught workshops covering topics such as practical deep learning, mobile development and version control
 ReactJS Typescript Javascript HTML CSS GatsbyJS Keras Git

Projects

TimeBricks 2020
timebricks.netlify.app github.com/SamLee514/TimeBricks
Time blocking app that allows users to chain timers together for different tasks and plan work schedules for the future. Maintains user engagement by stopping the timer if user is no longer actively adhering to schedule. Integration pending : NodeJS, Express, MongoDB, React Native, G Suite.
ReactJS TypeScript GatsbyJS

Technical Skills

Languages Python, Javascript, Typescript, HTML, CSS, C++, Java
Frameworks TensorFlow 2.x, Keras, ReactJS (hooks), GatsbyJS
Technologies Linux, Git, OpenCV, Singularity, SLURM, Firebase