

# Samuel Lee

## Software Engineer

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## Education

August 2018 | Vanderbilt University | Bachelor's in Computer Science, Math, Music  
May 2022 > GPA : 3.8

Data Structures Algorithms Software Engineering Linear Algebra Statistics Operating Systems

## Professional Experience

May 2021 | Intuit | Fullstack Intern, Nashville, TN

Present

- > Implemented backend logic in QuickBooks Online to decouple users' tax agency settings from their overall account settings, expanded UI functionality to give users more granular control over their tax return accounting bases
- > Worked closely with product manager and engineers, presented work to Small and Medium-sized Business Core mission team

Java Spring Boot GraphQL React

July 2020 | LMI Technologies | AI R&D Engineer, Boston, MA

Present

- > Implemented *state-of-the-art convolutional autoencoder architectures* and inference methodologies from recent *ML research* with Keras and TensorFlow
- > *Developed* autoencoder API to streamline modelling flow for defect detection
- > Presented R&D and feasibility reports to customers, *generating engagement*
- > *Optimizing* and deploying inspection pipelines to edge devices
- > Implemented performance improvements up to *2x speed* in existing pipelines

Python TensorFlow 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
- > *Presented work to interdisciplinary audience* on a weekly basis

Singularity Cluster Computing Python Keras TensorFlow 2 Jupyter

## Campus Involvement

July 2020 | VandyHacks | Director of Development, Nashville, TN

Present

- > Built the [promotional website](#) for Vanderbilt's annual hackathon, attracting over *1200 applicants* worldwide
- > *Managing* a 14-member development team, wrote code for recruitment assessments
- > *Taught workshops* on topics such as deep learning, mobile development and Git

ReactJS Typescript JavaScript HTML CSS GatsbyJS Keras Git GraphQL MongoDB

## Projects

### Vaken

[github.com/VandyHacks/vaken](https://github.com/VandyHacks/vaken)

Vandyhacks's in-house hacker registration system. Contributions include refactoring project configuration files and implementing a feature for sponsors to retrieve all hackers' resumes.

React Node GraphQL Typescript

## Technical Skills

**Languages** Python, C++, JavaScript, Typescript, HTML, CSS, Java  
**Frameworks** TensorFlow, Keras, ReactJS (hooks), Express, Apollo  
**Technologies** Linux, Git, Firebase, GraphQL, MongoDB, PostgreSQL, Google Cloud