

Samuel Lee

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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](#) [Web Systems](#) [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* and recruiting a 9-member development team
- > *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

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