

Samuel Lee

samlee.dev • (857)756-9374 • github.com/samlee514 • sam@samlee.dev

EDUCATION

Vanderbilt University | Bachelor's in CS, Math and Horn Performance, *cum laude* May 2022

- GPA: 3.8/4.0
- **Tech Lead at VandyHacks:** Recruited and co-managed team of 9 developers for Vanderbilt's annual student-run hackathon. Built promotional website viewed by over 1100 applicants worldwide, as well as hacker-management and judging platforms used during our event.

EXPERIENCE

AI R&D Engineer July 2020 - Present

LMI Technologies | Boston, MA

- Implement **state-of-the-art convolutional neural network models** from recent literature.
- Build declarative model training workflow to **support application development**.
- Optimize existing inspection pipelines' performance, up to **2x throughput and 1.2x accuracy**.
- **Present R&D and feasibility reports** to customers, generating engagement.

Technologies Used: Python, TensorFlow, PyTorch, OpenCV, Google Cloud Platform.

Software Engineering Intern May 2021 - August 2021

Intuit | Mountain View, CA

- Implemented **backend logic** in QuickBooks Online to decouple users' tax agency settings from their overall account settings, directly **addressing a common user pain point**.
- Expanded UI functionality to give users finer control over tax agency reporting.
- **Collaborated** with manager and engineers and presented work to core mission team.

Technologies Used: Java, React, GraphQL, Docker, Jest, Mockito.

Teaching Assistant August 2019 - May 2020

Vanderbilt University School of Engineering | Nashville, TN

- Assisted over 200 students in learning to implement **data structures with C++** in CS2201.
- Held twice-per-week office hours, provided feedback on assignments and exams.
- **Contributed test cases** to grading scripts.

Technologies Used: C++, Linux.

SKILLS

Tools and Languages: Linux, Git, Python, JavaScript (TypeScript), Java, C++, R, HTML, CSS.

Web Systems: React, GraphQL, Node.js, Express, Redis, MongoDB, PostgreSQL, Rest APIs.

Machine Learning: TensorFlow, PyTorch, OpenCV, Data Preprocessing, Model Selection and Design.

Cloud Technologies: Amazon Web Services, Google Cloud Platform, Docker, Cluster Computing.

PROJECTS

Witness: <https://github.com/VandyHacks/witness>

VandyHacks's in-house judging and team-management platform. Allows event participants to create teams and submit their hackathon projects to be presented. Allows judges to view a dynamically updating schedule of their assigned presentations and submit scores. Allows organizers to manage the judging process at a high level. **Contributions include:** bootstrapping the project, leading its initial design and delegating tasks to team. Writing code for both frontend and backend.

Technologies Used: TypeScript, React, NextJS, MongoDB.