

Sam Liu

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Skills

Technologies: TensorFlow, NumPy, Matplotlib, React, Django, Flask, NGINX, PostgreSQL

Languages: Python, JavaScript, SQL, C, C++, Java, Bash, Swift, HTML, CSS

Experience

Software Developer, New York Theological Education Center

Jun 2021 - Present

- Developed a website and app used by **50+** NYTEC members to quickly navigate to commonly accessed links
- Designed an email and app notification system for instant access to the latest church news
- **Technologies used:** React, React Native, Firebase, Flask

iOS App Developer, St. Augustine Catholic High School

Feb 2020 - Jun 2021

- Contributed to an app used by **85%** of the student body for office and club announcements, daily cafeteria menus, song requests, etc.
- Redeveloped the app from scratch using SwiftUI to modernize the user interface
- **Technologies Used:** SwiftUI, Firebase, Git

Deep Learning Specialization

Dec 2021

Projects

Chess AI

- An ML-powered chess bot rated at **1200+** that can be played against using a personally created user interface
- **Technologies Used:** TensorFlow, NumPy

Song Sheet Creator

- A website that allows guitarists to fetch song lyrics, annotate chords, add strumming patterns, auto-scroll, and view public song sheets
- **Technologies Used:** React, Redux, Django, PostgreSQL, NGINX

Background Remover

- An ML-powered background remover for portraits with **90%** pixel accuracy and **65% IoU**

Photo Colourizer

- CNN-based black and white landscape colourizer

Education

- **Computer Science** at the **University of Waterloo**
- **\$18k** Rene Descartes National Scholarship (2021)