

# Sam Liu

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## Skills

**Technologies:** React, Django, PostgreSQL, Firebase, React Native, SwiftUI, Git, Redux

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

## Experience

New York Theological Education Center

### App Developer

Jun 2021 - Present

- Developed an app used by the NYTEC body to quickly navigate to web resources
- Used react native and react navigation to facilitate the user experience
- **Technologies used:** React Native, React Navigation, JavaScript, Git

St. Augustine Catholic High School

### iOS App Developer

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, Swift Storyboard, Firebase, Git

### Founder of Computer Science Club

Nov 2020 - Jun 2021

- Weekly meetings with 30+ members
- Taught algorithms, data structures, and graph theory
- Explored game development using Pygame
- **Technologies Used:** Python, C++, Java

## Projects

### Song Sheet Creator

- A website that allows users to fetch song lyrics, annotate chords, add strumming patterns, auto-scroll, and view public song sheets
- Designed a REST API with Django to query the PostgreSQL database
- Created the user interface with React for the design and Redux for state management
- **Technologies Used:** React, Redux, Django, PostgreSQL, Python, JavaScript, HTML, CSS

## Education

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