

Tommy Nhu Phat Truong

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Education

Rensselaer Polytechnic Institute

Troy, NY

B.S. IN COMPUTER SCIENCE

May 2024

- Coursework : Introduction to Computer Science, Introduction to Algorithms, Probability Theory, Linear Algebra, Foundation of Computer Science, Data Structures, Numerical Computing
- Rensselaer Leadership Award Scholarship, RPI Dean's List: Spring 2022

Sorbonne University, Polytech School of Engineering

Paris, France

B.S. IN GENERAL ENGINEERING, GPA: 3.71

June 2021

Work Experience

Shuttle Tracker

Rensselaer Center for Open Source

SOFTWARE DEVELOPER

Sep. 2021 - Present

- Built a fully native iOS shuttle tracking application used by over 600 students.
Fall 21:
- Used SwiftUI and MapKit to create embed maps directly into user's views and added annotations and overlays for user experience.
- Created the information page, additional onboarding prompts and improved orientation support. Added haptic feedback on bus selection.
Spring 22:
- Implemented a machine learning model with the CoreML framework to predict the time of arrival of a particular bus using spoofed data.
- Created a debugging tool to detect invalid locations rejected by the server.
- Incentivized users to share location by calling the milestones API and displaying the total amount of users contributing.

Rensselaer Polytechnic Institute, Computer Science Department

Troy, NY

UNDERGRADUATE TEACHING ASSISTANT

Jan. 2021 - May. 2022

- Organized office hours for the CS-1100 Introduction to Computer Science class.
- Provided assistance to lab and review sessions on topics involving data structures (arrays, dictionaries, lists, sets), algorithms (sorting, searching, recursion) and problem solving (sudoku, egg hunt, closest point).

Center for Career and Professional Development

Troy, NY

WORK-STUDY ROLE

Feb. 2021 - Jun. 2012

- Assisted students with scheduling meetings with career counselors and attended to necessary clerical duties such as data entry.

Projects

Uni Friends | Swift, AVFoundation, Google Firebase

- Developed and deployed an iOS application that integrates a music player with a built in timer to help students manage studying time.
- Utilized Google Firebase Storage to store songs and stream it on the device.
- Send a notification to users once the timer runs out.

Handwritten number recognition | Python, Tensorflow, Neural Network

- Created a basic neural network model using Tensorflow to predict the number drawn by the user.
- Verified with testing data and obtained an accuracy rate of 99,1 %.

Mastermind | Python, Numpy

- Programmed a mini color guessing game.
- Give hints to user's depending on the word input and each letter placements.

Leadership

RPI Chess Club

Troy, NY

VICE PRESIDENT

Oct. 2011 - Present

- Organised weekly over the board meetings and online tournaments.

CIA eSports

Paris, FR

EVENT ORGANIZER

Sep. 2020 - May. 2021

- Scheduled events and registered over 500 players from Polytech's 16 graduate schools.

Skills

Languages Swift, Python, C++, LaTeX

Tools SwiftUI, UIKit, Tensorflow, HTML/CSS, Node.js, React.js, Github, Agile, MySQL