

Tin Nam Liu

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EDUCATION

University of Pennsylvania | Philadelphia, PA

May 2025

Candidate for Bachelor of Science in Engineering

Major: **Computer Science** | Cumulative GPA: **3.97/4.00**

Honors/ Awards: Dean's List 2021-22 (2021-2022)

Diocesan Girls' School | Hong Kong SAR

June 2021

DSE scores: Chinese 5** | English 5** | Mathematics 5** | M2 5 | LS 5* | Physics 5** | ICT 5** | Chemistry 5; TOEFL score: 118/120

Honors/ Awards: Dr C. J. Symons Scholarship (2021), Information and Communication Technology Subject Prize (2021, 2018), 1st Runner Up of SCMP Student of the Year Grand Prize (2020), Winner of the Harvard Book Prize (2020), DGS Scholarship (2015-2021)

TECHNICAL SKILLS

Java, JUnit Testing, OCaml, Assembly, C, Python, SQL, Swift – iOS, HTML, LaTeX, Figma, Github, Adobe Creative Suite (Pr, Ae, Ai, Ps, Id, Au), Microsoft Office Suite

COURSEWORK

Computer Science

Programming Languages & Techniques, Computer Systems Architecture, Discrete Mathematics, Database Design

Math

Multivariable Calculus, Vector Calculus, Mathematical proofs, Graph Theory, Induction principles, Combinatorics, Statistics and Probability

Physics

Classical Laws of Motion, Conservation Laws, Particle and Rigid Body Motion, Harmonic Motion, Gravitation, Electromagnetism and related laws, DC and AC circuits, Maxwell Equations

Writing

Outlines, White Paper, Job Cover Letter, Resume, On-Demand Writing

EMPLOYMENT EXPERIENCE

UPenn | Programming Course (CIS120) Teaching Assistant

Jun 2022 – Present

- Conducted a mock recitation and a mock office hours session. Will be officially assisting students in the upcoming semester (Fall 2022).

Fiverr | Freelance Video Editor, Animator, and Graphic Designer

May 2020 – Present

- Edited videos, color-corrected footages, and designed booklets, custom motion graphics, and social media graphics for six clients.
- Received an overall 5-star rating.

PROJECTS

CodePath | Philadelphia, PA

Aug 2021 – Dec 2021

- Produced four applications (tip calculator, flix, parstagram, twitter) utilizing various APIs, Swift, and Storyboard.
- Worked in a team of two to create a distraction-free version of Youtube using Figma, Github, Youtube API and Xcode (Swift + Storyboard).

Language Pop | Hong Kong

Dec 2018 – Apr 2019

- Collaborated with four teammates to create a mobile application, which gamifies language education, using FusionTable and MIT App Inventor.
- Edited a pitch video and a demo video for the application.
- Participated in the International Exhibition of Inventions of Geneva 2019 as one of the exhibitors and won the silver medal.
- Competed and won AppJamming Summit held by First Code Academy and Silver Award of the Hong Kong ICT Awards.

Dementia Care Companion | Hong Kong

Aug 2016 – Aug 2017

- Led a team of five to create a mobile application for dementia patients using Firebase and MIT App Inventor.
- Currently redeveloping the application with Swift + SwiftUI.
- Edited a pitch video and a demo video for the application.
- Competed and won Technovation World Pitch Summit 2017. Presented in the Google headquarters at Silicon Valley.

VOLUNTEERING, LEADERSHIP, OTHER LEARNING EXPERIENCE

EMT/ Candidate for UPenn MERT

Jan 2022 – Present

Obtained CPR certification from the American Heart Association. In training for NREMT (National Registry of Emergency Medical Technicians) registration.

DGS Media Production Team

Aug 2016 – June 2021

Chaired the Media Production Team of Diocesan Girls' School (DGS). Organized multiple school filming events and microfilm productions. Edited videos using Adobe Premiere Pro and Adobe After Effects.

DGS VA Magazine & School Quest Technical Editor

Aug 2019 – June 2021

Collaborated with four technical editors. Edited and designed the layout of the VA magazine using Adobe InDesign.

Red Cross

Aug 2015 – June 2020

Organized service projects for low-income children, non-Chinese minorities, and elderlies in Hong Kong. Created teaching materials in video format.

DGS Head Prefect

Aug 2019 – June 2020

Facilitated communication between students and the school. Arranged school events. Led a group of 30 prefects.

Sales and Marketing Director (Research and Promotion) for Mini Bazaar S4 Programme

Aug 2018 – Dec 2018

Conducted market research and competitive product analysis. Analyzed and implemented different promotion strategies for our class's product, including but not limited to promotion via social media. Created promotional videos for the product's Instagram account.