Karen Hao-Yi Tu

<u>haoyit@andrew.cmu.edu</u> ♦ (346) 368-4758 <u>linkedin.com/in/karenhytu</u> ♦ <u>karenhaoyitu.com</u> ♦ <u>github.com/haoyt5</u>

EDUCATION

Carnegie Mellon University, Mountain View, CA

January 2022—May 2023 (Expected)

Master of Science in Software Engineering

New York University, Tandon School of Engineering, Brooklyn, NY

January 2021 - July 2021

Preparatory Course for Graduate Studies in Computing

• Course topics include: Computer Programming in C++, Object Oriented Design, Discrete Math, Data Structures and Algorithms, Principles of Operating Systems, and Introduction to Computer Networks

University of California, Berkeley, Berkeley, CA

May 2018-August 2018

Summer Session

Selected Coursework: CS160 User Interface Design and Development, Design Methodology

- Implemented five web applications using HTML, CSS, JavaScript, WebSocket, and Django.
- Awarded to one of the three design awards among 30 teams in the class of CS160 for a high-achieving design cycle.

National Taiwan Normal University, Taipei, Taiwan Bachelor of Arts, History, Cumulative GPA: 3.74/4.30

September 2012—January 2017

SKILLS

Programming Languages: Familiarity with WebDev Languages (HTML, CSS, JavaScript, jQuery) **Frameworks and Tools**: React, Redux, RESTful API, Node.js, Unit Test (Jest), Git, Webpack

PROFESSIONAL EXPERIENCE

Trend Micro Inc.

Taipei, Taiwan

Sr. Engineer

June 2019-August 2021

- Developed Trend Micro Activation Service and credit-based licensing service UIs using React and Redux to help 7,000+ business customers activate and track the usage of their solutions.
- Migrated from multi-page to single-page web app which boosted the activation success rate by 120% in 4 months.
- Launched an internal User Behavior Report dashboard which enabled executives and analytics team to make data-driven decisions on licensing business saved the manual time of work over 60%.
- Designed and implemented a platform with features of data visualization and role-based access control (RBAC) to advance EU and NABU teams' channel business targeted on customers whose potential is 3.49 times higher.
- Ensured efficient user experience through paging loading and cache reduced the time of first contentful paint by 50%.
- Completed unit tests in Jest and React Testing Library ensured up to 100% coverage for new modules.
- Won 2nd place among 90 teams and 1,500 employees in an internal Customer Success and DevOps contest.
- Won 1st place among 20 teams in the Information System (IS) DevOps Camp.

AppWorks SchoolWeb Class Trainee

Taipei, Taiwan

January 2019—June 2019

- Selected as one of 9 trainees from 400+ applications for the non-CS background based on programming potential.
- Implemented four assigned and personal web apps which integrated with third-party payment service and Web Storage API using VanillaJS. React, and Redux in 75 to 80 hours per week of individual project-based training.
- Built real-time customer support service UI via WebSocket with Backend trainees under the Scrum development.

PROJECTS

Front-End Engineer, Homie — Web Application Project

March 2019

- Developed housework management app with features of OAuth login, account, and task management CRUD operation via React and Firebase.
- Visualized the task-rewarding system by plotting bar charts using D3.js to drive users with initiatives.

UI Designer / Web Developer, NS WATCHER — Mobile Application Project

February 2018

- Led design for 5,000+ downloads and 4.9/5.0 rated game price comparison Android application (NS Watcher) to help users figure out the best deals.
- Developed delightful and effective interaction through VanillaJS to build an introduction website for potential users.