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Karen Hao-Yi Tu

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Education

Carnegie Mellon University

Master of Science, Software Engineering

Mountain View, CA January 2022 to May 2023(Expected)

University of California, Berkeley

Summer Session, Cumulative GPA: 3.42/4.00

Bachelor of Arts, History, Cumulative GPA: 3.74/4.30

Berkeley, CA June to August 2018

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

• Received one of the three design awards among 30 teams in the CS160 class for a high-achieving design cycle.

National Taiwan Normal University

Taipei, Taiwan

September 2012 to January 2017

Professional Experience

Trend Micro Inc.

Sr. Engineer

Taipei, Taiwan

June 2019 to August 2021

• Developed Trend Micro Activation Service and credit-based licensing service UIs for customers to activate and track usage of the solutions.

- Launched and developed internal User Behavior Tracking Report Center to enable executives and project managers to monitor the global licensing business.
- Setup and wrote unit tests in Jest and React Testing Library ensured 100% coverage for new modules.
- Designed, implemented, tested, and maintained the UIs in React/Redux to advance Europe and North America sales teams' channel business through data visualization and the summary of various customer activities.
- Ensure effective and efficient UX by improving site performance that reduces page loading time by 50%.
- 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 School

Taipei, Taiwan

Web Class Trainee

January to June 2019

- Selected as one of 9 trainees from 400+ applications based on programming potential.
- Independently created four assigned and personal web apps using VanillaJS and React/Redux in the 75 to 80 hours/week project-based training.

Projects

Homie - Web Application Project

Front-End Engineer

Taipei, Taiwan March 2019

- Homie is a cloud-based housework management tool built with React, Redux, D3.js, and Firebase.
- Implemented member, group, and task management features with Firebase.
- Visualized the task-rewarding system by plotting charts using D3.js to drive users with initiatives.

NS Watcher - Mobile Application Project

UI Designer / Web Developer

Taipei, Taiwan *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.

Skills

Programming Languages: WebDev Languages (HTML, CSS, JavaScript, jQuery), Python, SQL, C++ **Frameworks and Tools:** React, Redux, Unit Test (Jest), RESTful API, Node.js, Git, Webpack, LaTeX **Languages:** English, Mandarin, Taiwanese

Certificates

- NYU Tandon Bridge Certificate of Completion, New York University, Brooklyn, New York (July 2021)
- International Youth, National Taiwan Normal University, Taipei, Taiwan (June 2016)
- The excellent interviewer, Asian Barometer Survey Wave 4: Democracy, Governance and Development Taiwan Survey Project, Center for East Asia Democratic Studies, National Taiwan University and Institute of Political Science, Academia Sinica (October 2014)