

EDUCATION

Stanford University, B.Sc. Computer Science, M.S. Management Science & Engineering

LANGUAGES & SKILLS

- Python, Typescript, JavaScript, C, C++, Rust, SQL, OCaml, Java, WebAssembly
- Unix, React, Svelte, Node, Flask, Django, Pytorch, Tensorflow, QT

EXPERIENCE

- Software Engineer, Roblox** 07/22 – 07/23
- Enhancing the collaboration experience of Roblox developers by auto-reconnecting a broken Team Create experience, thus improving overall connectivity stability by 4%
- Cofounder CTO, Tym (Acquired by Roblox)** 08/21 – 07/22
- Building the next-generation code collaboration tool that lets you collaborate with other engineers instantly
- Software Engineering Intern, Instabase** 06/20 – 09/20
- Developed a document auto-extractor that utilizes program synthesis to create functions to extract fields of interest
- Research Assistant, Stanford AI Lab** 04/20 – 06/20
- Formulated image segmentation labelling functions for cardiovascular CT scans. These labelling functions are then provided as inputs for our weak supervision model to generate training labels, thus increasing data efficiency
- Software Engineering Intern (ML Ads Ranking), Facebook** 06/19 – 09/19
- Improved the quality of messenger story ads by ensuring all users have more appropriate and quality advertisements, thus reducing the number of bad ads delivered by 20% and increasing the revenue by 1% as a side effect
- Robotics Engineering Intern, Peanut Robotics** 06/18 – 09/18
- Peanut Robotics is a stealth-mode robotics startup from Berkeley Skydeck*
- Constructed an end-to-end semi-supervised reinforcement learning pipeline which improves the Generative Grasp Convolutional Neural Network using training data generated from a simulator
- Software Consultant, National Junior College** 05/17 – 09/17
- National Junior College is the first Junior College established in Singapore*
- Created a responsive resource booking portal from the ground up that allows the booking of classrooms and lecture halls to replace a legacy portal and rolled it out for production with over 100 active users
- Logistician and App Developer, Army Intelligence, Singapore Armed Forces** 02/15 - 12/16
- Developed NaviCalc, a navigation Android application based on the Military Grid Reference System, actively used by 300+ reconnaissance soldiers for their jungle navigation exercises

PROJECTS

- **Machine Learning Domain Specific Language Interpreter** – Built an interpreter that performs auto-differentiation on scalars, vectors and matrices using forward-mode differentiation in OCaml
- **AI Manager for Retail** – Implemented a demo that analyzes a video stream in a retail shop to propose actions and derive analytics, winning the Y-Combinator Hackathon

CO-CURRICULAR ACTIVITIES AND AWARDS

- Singaporeans at Stanford (Vice-President) 02/18 - 02/19
- Stanford Resident Computer Consultant 09/18 - 06/19

SPOKEN LANGUAGES

- English, Chinese, Malay

INTEREST AND HOBBIES

- Gadget enthusiast – Dissecting broken gadgets and then attempting to revive them with soldering and duct tape
- Outdoor adventure – Hiking, camping, and observing creatures of nature