

Shermern Ang

+1 (412) 251-9619 | Email shermern@cmu.edu | LinkedIn [shermern](#) | GitHub [Shermern](#)

EDUCATION

Carnegie Mellon University - B.S. Computer Science

May 2025

- GPA 4.0/4.0, Dean's List
- Introduction to Computer Systems, Great Ideas in Theoretical Computer Science, Principles of Imperative Computation, Principles of Functional Programming

WORK EXPERIENCE

NASA - Researcher

Jan 2023 - Present

- Cooperated on NASA contracted project for pose estimation of spacecraft through machine learning
- Created and curated a comprehensive dataset of spacecraft images using the Basilisk simulator for training and evaluation purposes
- Collaborated with researchers in the Robotics Exploration Lab, CMU, in refining pose estimation algorithm

Singapore Armed Forces - Lieutenant

Dec 2020 - Feb 2021

- Managed a 40 men for operations and training daily as Commander of Traffic and Presidential Guards Platoon
- Oversaw training and coordination for a Unit of more than 500 men as Training Coordination Officer
- Commissioned in top 10% of cohort as a 2nd Lieutenant and awarded Platoon Best for Fitness

PROJECTS

C0 Virtual Machine - C

May 2023

- Created core components of a virtual machine for C0, a subset of C, including instruction set, stack-based architecture, and memory management
- Implemented a lexer and parser to handle C0 language syntax and generate bytecode for execution

Sudoku - Python, OCR, Selenium

Dec 2022

- Designed and developed a Python-based Sudoku game from scratch
- Coded a Sudoku solving algorithm, optimizing it for efficiency and accuracy to ensure generation of solvable and challenging puzzles

Automated Booking System - Python, Selenium

Sep 2021

- Implemented a Python-based application to automate booking of driving lessons in Singapore, expediting learning period for multiple users from a three months to one

EXTRACURRICULARS

CS for Ukraine - Instructor

Jan 2023 - Present

- Designed and delivered interactive Python programming lessons to Ukrainian teenagers, fostering interest and proficiency in coding

Singapore Students Association - Treasurer

Nov 2022 - Present

- Oversaw financial operations, negotiated and secured sponsorships, grants, and partnerships to supplement association's financial resources and enhance its initiatives

OTHERS

Technical Skills

- Python, C, SML, React, SQL, HTML, CSS, JavaScript, GitHub, Linux, Vim, Basilisk, Leadership

Languages

- Native proficiency in English and Mandarin Chinese, Beginner proficiency in Japanese

Interests

- Blockchain, Enterprise, Security, Startup, Venture Capital, Design, Running, Gym, Stenography