

Kester Tan

Software Engineer

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🐙 KesterTan

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Education

Carnegie Mellon University

Pittsburgh, Pennsylvania, PA

Bachelor of Science Information Systems + Computer Science

May 2025

- Dean's list High Honours
- Only undergraduate chosen to represent CMU at the Amazon Alexa Social bot competition
- Software engineer at CMU Blockchain Club & CMU Business Technology Group
- Selected Courses: *Functional Programming, Concepts of Mathematics, Imperative Computation, Programming & Computer Science*

Experience

Software Engineer at Autolab

Jan 2023 - Current

- Developed testing using FactoryBot that improved team workflow efficiency by 50%
- Implemented user and developer caching using Ruby on Rails and C
- Used MySQL and Rails to create metrics used by professors to monitor and track student performance

Software Engineer at ZUZlab

Aug 2022 - Current

- Leading React Native Team responsible for end-to-end mobile app development
- Built marketplace and vendor interface for local businesses from scratch using React, Node.js and TypeScript

Product Manager at Hypotenuse AI (YC S20)

Jan 2022 - Aug 2022

- Created an event-tracking system to drive in-depth data analytics, key business decisions & targeted customer engagement campaigns using Node.js, Amplitude, and Customer.IO
- Conceptualized and implemented improvements for mobile responsiveness and UI/UX using Figma and Webflow
- Designed & created web pages, ranked on the 1st page of Google (2000+ views/month) using HTML, CSS, & JavaScript
- Product management of new features. Used LogRocket, Apollo, Postage, Semrush, and Google Search Console.
- Wrote Python scripts to improve authentication system (reduced fake account creation and spam by 40%)

Lieutenant at Republic of Singapore Air Force

Mar 2020 - Jan 2022

- Created Telegram bots using JavaScript and Telegraf to provide weather updates for 200+ in-camp personnel
- Used excel to streamline data processing and workflows for the training for 120 cadets

Talent Acquisition & People Operations at ShopBack

Jan 2020 - Mar 2020

- Used Python, Confluence, and Jira to create a HR request tracker used by 100+ ShopBack employees

Projects

- **HeyYa!** — Used Swift, Node.JS, Prisma ORM, CockroachDB, Keras to build a mobile journal entry app with sentiment analysis
- **Reversi.AI** — Used Python and Sockets to create a multiplayer Reversi with Monte Carlo Tree Search and Minimax algorithm

Awards & Honors

- 1st at International Future Problem Solving Competition 2018
- 22x National Medalist Canoe Sprint 2014-2020