

YEONG ZONG YAO

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PERSONAL STATEMENT

Hola! I'm Zong Yao! From a young age of 13, my journey in programming began, igniting a deep-seated passion for leveraging technology to transform the world around me. As a hackathon organizer, I am thrilled at the prospect of being part of such innovative startups. With coursework and internship experiences in both hardware and software, I believe my versatility with both software and hardware engineering will prove to be valuable to your company.

EXPERIENCE

HedgeSPA, Software Engineering Intern

May 2023 – Sep 2023

- Data Extraction & Transformation: Utilized SQL queries to extract and transform financial data and execute data cleansing, filtering, aggregation, and reshaping for data usability
- Applied Machine Learning concepts in financial analysis for asset portfolio rebalancing
- Created and implemented a Rasa chatbot to allow users to obtain information on ESG reports generated by HedgeSPA
- Built a sentiment analysis engine that scrapes news data using Python and BeautifulSoup. Scraped data analyzed and stored in MySQL database
- *Skills: Python, Pandas, SQL, MySQL*

Razer, Software Automation Intern

Mar 2022 - Jul 2022

- Wrote automated test scripts for the next iteration of Razer Synapse, a device configuration tool, using Robot Framework
- Implemented a continuous integration and continuous delivery pipeline for device simulation and automated test scripts deployment.
- Affected Product Line: Blackwidow, Huntsman, Basilisk, Blade, Deathadder, Kraken
- *Skills: Python, Robot Framework, Selenium Framework*

EDUCATION

National University of Singapore

Computer Engineering and Software Engineering

Aug 2022 - May 2026

PROJECTS

VolunteerConnect

Jan 2024 - Feb 2024

- Developed a web app for non-profit organizations to organize and monitor events and for volunteers to sign up for events
- Utilized NLP technique TF-IDF Vectorisation to create an event recommendation system
- Used React Charts to create a dashboard
- *Skills: Javascript, HTML, CSS, React, Firebase, Node.js*

NUScores

May 2023 - Aug 2023

- Developed a web application for tournament brackets creation and score tracking
- Used React for frontend and Django for backend
- *Skills: Typescript, React, Django*

ALEX

Jan 2023 - May 2023

- Developed a LiDAR controlled robotic vehicle operated by RPi and Arduino Uno
- Used Bare Metal Programming and TLS Secure Communication
- Used Hector SLAM and RViz for LiDAR operation in the ROS ecosystem
- *Skills: C, RaspberryPi, Arduino Uno, Slamtec LiDAR, ROS, Hector SLAM, TLS, RViz*

The Marketplace

May 2022 - May 2022

- Designed an AI-driven social media app to democratize access to information on farming trends and technologies in the agriculture industry
- Conducted market analysis and developed a business model
- Pitched to more than 200 student audience, industry experts and angel investors
- *Skills: Figma, Excel, Powerpoint*

TECHNICAL SKILLS

Languages: C++, C, Python, Javascript, HTML & CSS

Frameworks: React, Django, Flask, Selenium, Robot

Libraries: Pandas, Numpy, Pytorch, Matplotlib, OpenCV, Scikit-Learn

Software: Figma, Adobe XD, Excel, Powerpoint, Word

Management Tools: Jira, Github

CERTIFICATES

- Google UX Design Certificate
- Python Institute Certified Programmer Certificate
- University of Michigan Applied Machine Learning in Python Certificate