

SEAN CHOK

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English: Native

Chinese: Conversational

Cantonese:

Conversational

EXPERIENCE

Co-founder / Head of Engineering, Deploifai Limited — 2021–2023

- Plan and coordinate engineering milestones and sprint tasks with team members
- Design developer tools and engineering solutions to use cloud technologies for MLOps
- Create and maintain a Kubernetes cluster to host all applications and services through Terraform and Helm charts

Industrial Trainee, The Hong Kong and China Gas Company Limited — 2020–2021

- Build robots and tools to be used for gas pipe infrastructure maintenance
- Perform experiments to verify safety of direct gas purging practices
- Develop software for a robot microcontroller using Raspberry Pi's and mobile apps
- Conduct FEA for a trench plank load safety study

Student Research Assistant, HKU Healthy Cities Lab — Summer 2020

- Assist a PhD student with lab experiments to understand the synergistic effects of facial masks and respirators on human thermal, dermal and respiratory regulation
- Design and develop a website to introduce the lab and its members

Technology Intern, Carbonbase — Summer 2020

- Build a prototype web app (frontend and backend) using Postgres database with a REST API design
- Solve problems related to the deployment of the web app involving docker, and AWS ECS / ECR

EDUCATION

The University of Hong Kong; Bachelor of Engineering — 2023

- Major in Mechanical Engineering / Minor in Computer Science (First Class)

PROJECTS

Autonomous Exploration with Multiple Automated Ground Vehicles (FYP) — 2023

- Study and implement frontier-based autonomous exploration algorithms for a small group of robots in a 2D environment without GPS
- Write and run programs in ROS 1 involving multiple machines
- Conduct and film experiments using simulated and real-life robots (<https://www.youtube.com/@hku.convoyai>)

HKU Robomaster (Student Mechanical Engineer) — 2018–2019

- Design, build, and test robots with projectile shooting capabilities
- Compete with teams from other universities in a feature-rich battlefield

SKILLS AND ABILITIES

- Solidworks, Matlab, 3D printing, simple workbench techniques
- Docker, Kubernetes, Terraform, Ansible, Kafka, AWS / Azure / GCP, ROS, Linux, React, Express, FastAPI, GraphQL, Prisma ORM
- C/C++, Golang, Python, Rust, Javascript, Typescript
- Public speaking – Speaker at Hong Kong Open-Source Conference 2023

AWARDS

- HKU Model United Nations 2019 – Outstanding Delegate Award