

JUE WANG

GitHub: <https://github.com/joewang0430> jueee.wang@mail.utotonto.ca

Portfolio: <http://www.wangjue.me/>

Education

University of Toronto Sep. 2023-June. 2028

BASe in Computer Engineering + PEY Coop Toronto, Canada
(CGPA:3.7)

Experience

Internship - Alibaba Group June 2024 - August 2024

Software Engineer Intern / Alibaba - DingTalk Department Hangzhou, China

- Developed and debugged User Interfaces of the Dingtalk app on the Harmony end using Ark-TypeScript (ArkTs).
- Developed test automation scripts using Python based on certain APIs and used SQLite to handle trace data.
- Programmed a Python aid script for crash analysis, which inputs the crash log and outputs the resolved crash info.

U of T Robotic Association (UTRA) September 2023 - Present

Software Team Member / Automatic Rover Team (ART). Toronto, Canada

- Subteam of navigation: responsible for planning reinforcement learning planning algorithms.
- ROS integration: developed packages integrating AI algorithms into global planning sections.
- Took part in Raspburry Pi development last year in the Embedded team, focused on making SPI connections.

Projects

Pulse Track February 2025

Wearable Health Monitor Device & App.

- Developed three human health sensors using ESP-32 and sent data using Wi-Fi.
- Constructed back-end to receive data and updated the real-time data into webpage using Flask and WebSockets.

Toronto, Canada

Potracc-co January 2025

Human Posture Visualization.

- Used OpenCV to analyze human posture videos and return the vector data.
- Used Three.js in front-end to process the vector data to generate corresponding animations.

Vancouver, Canada

UTRA Hack Website October 2024 – January 2025

UTRA Hackathon Organization 2025.

- Responsible for making the authentication section based on the Supabase and all the related front-end pages using Next.js.
- Design Zod and Prisma schema for the application form.

Toronto, Canada

Safety Bud March 2024

AI App for Safety Training.

- Responsible for developing backend using Python and Gemini APIs, which received the given prompts and generated feedback in JSON format to front-end.
- Was awarded the “Best AI in Equity, Diversity & Inclusion Award” by Google.

Toronto, Canada

Technical Skills

- Languages: C, C++, Python, assembly, Typescripts, JavaScript, HTML, CSS.
- Tools: Django, Flask, React, Next.js, Three.js, Node.js, SQL, Supabase, MongoDB, OpenCV, ROS.

