

# 王珏

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## 教育经历

### 多伦多大学

2023.9-2027.5

计算机工程 / 本科

- CGPA: 3.73/4.0 ; 学院 Top30 学生(2024) ; 学院荣誉榜单 2023-2024 ;
- 相关课程 : 软件工程与设计、编程基础、计算机架构、计算机科学导论、数字逻辑电路、线性代数等

## 工作经历

### 阿里巴巴集团 钉钉事业部

杭州, 中国

软件开发实习生

2024.6 – 2024.8

- 使用 Python 及 Hypium API 构建性能自动化测试脚本, 监测 11 个页面的加载时长和帧率。
- 使用 ArkTs 在 HarmonyOS 端开发钉钉前端, 负责构建应用首页的长按菜单部分。
- 通过 Python, 开发了一款用于崩溃分析的网络爬虫和字段提取脚本, 解析超过 4000 行崩溃日志。

### 多伦多大学机器人协会 (UTRA)

多伦多, 加拿大

网站开发工程师

2024.10 – 2025.1

- 使用 React (Next.js)编写了 7 个用户身份验证页面前端页面。并负责注册表单解析和电子邮件调用模块。
- 负责制作用户申请部分的 Prisma 和 Zod 数据架构。
- 网址: <https://hackathon.utra.ca/>; GitHub: <https://github.com/UTRAHacks/UTRAHacks-2025-Website>

## 项目

### 穿戴式健康检测设备&应用 (PulseTrack)

多伦多, 加拿大

简介: [https://www.wangjue.me/projects/pulse\\_track](https://www.wangjue.me/projects/pulse_track); GitHub: <https://github.com/joewang0430/health-monitor> 2025.2

- 在为期 2 天的黑客马拉松中担任队长, 带领 4 人团队开发了一款可穿戴设备, 用于实时监测体温、心率、血氧等健康指标。
- 数据通过 ESP-32 控制的硬件监测, 依靠 WiFi 传输到后端, 并使用 WebSockets 在前端实现实时数据显示。
- 负责整体项目设计, 构建 WebSockets 连接和使用 Flask 进行后端开发, 同时负责数据显示和 AI 反馈页面的 React 前端开发。

### GIS 地图软件

多伦多, 加拿大

简介: [https://www.wangjue.me/projects/gis\\_mapper](https://www.wangjue.me/projects/gis_mapper)

2025.1 至今

- 与 3 人团队合作, 使用 C++ 和 LibStreetMap API 开发地图查询和导航软件。
- 负责实现地图两点间导航的 Dijkstra 算法。
- 负责编写贪心, 模拟退火, 2-opt, 和 3-opt 这 4 种路径优化算法, 解决软件中的旅行商人(TSP)问题。
- 使用 EZGL library, 编写部分 UI 组件和 onClick 函数。主要包括地图绘制, 导航信息栏目和用户起终点输入。

### 个人网站 (Wangjues Zone)

多伦多, 加拿大

网址: <https://www.wangjue.me/>; GitHub: <https://github.com/joewang0430/my-web>

2025.1 至今

- 使用 React 建立个人网站, 并部署在 Vercel 上。

## 技能 & 荣誉

计算机语言: 熟练掌握: JavaScript, HTML/CSS, C++, C ; 熟悉: MATLAB, Python, SQL, RISC-V Assembly

工具/框架: React, Next.js, Flask, Django, Node.js, Three.js, MongoDB, ROS.

奖项: Faculty Top 30 Students (2024) | Dean' s Honor List (2023-2024) | Edward S. Rogers Sr. Admission Scholarship.

# JUE WANG

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## EDUCATION

### UNIVERSITY OF TORONTO

BASc in Computer Engineering + PEY Coop

Cumulative GPA: 3.73/4.0; Dean's Honor List 2023-2024

Relevant Coursework: Software Engineering; Programming Fundamental; Algorithms; Computer Organization

Toronto, Canada

Expected May 2027

## WORK EXPERIENCE

### DINGTALK, ALIBABA GROUP

Software Engineering Intern

Hangzhou, China

Jun 2024 – Aug 2024

- Developed automated performance testing scripts using Python and Hypium API, measuring page load times and frame rates for 11 application pages.
- Built the frontend of DingTalk on HarmonyOS end using ArkTs, built the long-press menu for the homepage.
- Developed a web crawler and field extractor for crash analysis using Python, which parsed over 4000 lines of crash logs.

### UNIVERSITY OF TORONTO ROBOTIC ASSOCIATION (UTRA)

Website Developer

Toronto, Canada

Oct 2024 – Jan 2025

- Built the frontend for seven user authentication pages using Next.js. Made partial connections to the backend by implementing the sign-up form resolver and calling the email modules.
- Implemented the Prisma schema and Zod structure for user application parts.
- Address: <https://hackathon.utra.ca>; GitHub: <https://github.com/UTRAHacks/UTRAHacks-2025-Website>

## PROJECTS

### PULSETRACK – WEARABLE HEALTH MONITOR

Details: [https://www.wangjue.me/projects/pulse\\_track](https://www.wangjue.me/projects/pulse_track)

Toronto, Canada

Feb 2025

- Team lead of a 4-person team in a 2-day hackathon: implemented a wearable device monitoring indicators, including body temperature, heart rate, and blood oxygen.
- Collected biometric data via ESP32-controlled sensors, transmitted to the backend via WiFi, and visualized data in real-time on the frontend using WebSockets.
- Responsible for building the WebSockets connection, backend development using Flask, and partial front-end using React.

### GIS MAPPER

Details: [https://www.wangjue.me/projects/gis\\_mapper](https://www.wangjue.me/projects/gis_mapper)

Toronto, Canada

Jan 2025 – Present

- Designed and implemented a map software in a 3-person team at school using C++.
- Responsible for implementing the Dijkstra algorithm for navigation between two points.
- Responsible for developing algorithms (greedy, simulated annealing, 2-opt, 3-opt) to solve the Traveling Salesman Problem.
- Built partial UI parts using the EZGL library in C++.

### PERSONAL WEBSITE

Website Address: <https://www.wangjue.me/>; GitHub: <https://github.com/joewang0430/my-web>

Toronto, Canada

Jan 2025 – Present

- Built the personal website using React, and deployed it on Vercel.

### PROTRACC.CO – POSTURE VISUALIZATION APPLICATION

Details: [https://www.wangjue.me/projects/protracc\\_co](https://www.wangjue.me/projects/protracc_co)

Vancouver, Canada

Jan 2025

- Designed and implemented an application that processed input video and transformed the human motion there into a 3D nodal representation for visualization.
- Responsible for building the application frontend and parsing the position JSON data of 32 nodes into an animation using Three.js.

## ADDITIONAL

**Computer Languages:** Advanced in JavaScript, HTML/CSS, C++, C; Proficient in MATLAB, Python, SQL, RISC-V assembly.

**Tools/Frameworks:** React, Next.js, Flask, Django, Node.js, Three.js, MongoDB, ROS.

**Awards:** Top 30 Students in Faculty (2024); Dean's Honor List (2023-2024); Edward S. Rogers Sr. Admission Scholarship.