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教育经历

多伦多大学	2023.9-2027.5	计算机工程 / 本科
<ul style="list-style-type: none">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		
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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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 ; GitHub: https://github.com/joewang0430/health-monitor	2025.2
<ul style="list-style-type: none">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	2025.1 至今
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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

Toronto, Canada
Expected May 2027

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

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

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

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

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

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, RISCV 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.