

HOWARD TSENG

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WORK EXPERIENCE

Software Developer, Co-Op Student @ Recollective, Inc.

May 2023 – Aug 2023 Ottawa, ON, CA

- Developed several production-grade, full-stack features with Vue frontend and Java backend for the Recollective Qualitative Research platform trusted by researchers worldwide
- Led the full-stack development of the Emoji Reactions feature to allow for lightweight interactions in forums for thousands of users
- Explored implementing the latest AI tools in the platform
 - Improved the AI powered transcription service by refining the AI transcription service for East Asian languages
 - Integrated semantic search in the platform and developed a theme extraction prototype with OpenAI GPT in a hackathon
- Facilitated the development of the front-end of the AI Live Meeting Summarization feature for summarizing meetings with generative AI
 - Aided in improving the backend and AI service for efficient error handling
 - Laid the foundation for subsequent AI Summarization milestones for key takeaways, themes, and more, as well as for future AI features

Vue SCSS Java Spring MySQL Python Generative AI

Co-Op/Intern Developer, Clients, Front End @ Kinaxis

Sep 2022 – Dec 2022 Kanata, Ottawa, ON, CA

- Developed high quality Typescript and React code for the RapidResponse web client used by Fortune 500 companies like Ford, Cisco, and Qualcomm
- Collaborated with the QA team to address several accessibility issues with the RapidResponse web client
- Enhanced product quality by fixing bugs, writing tests, and improving product performance for various parts of the application
- Participated in the Kinaxis Hackathon 2022 and won the Best Video award against 80+ teams internationally as a team of interns

React Typescript Styled Components HTML/CSS

Full Stack Developer @ Engineering Outreach uOttawa

May 2021 – Aug 2022, Jan 2023 – Apr 2023 Ottawa, ON, CA

- Developed several full-stack features with Angular, Typescript, PostgreSQL, Java Sling, Node, and Git used by hundreds of users
 - Implemented the Custom Fields templates settings, allowing for easy management of custom fields in listings within the application
 - Designed and implemented the Custom Fields feature in the Sign in application for quick visualization of participant custom fields information
- Reinforced skills in quality assurance and problem solving through writing unit tests, end-to-end tests, and implementing fixes for various technical issues in the Outreach application
- Aided in migrating significant amounts of end-to-end tests from Protractor to Cypress in the Outreach application

Angular Java Sling PostgreSQL Cypress HTML/CSS

MISCELLANEOUS EXPERIENCE

r/Taiwan r/place 2022, 2023 Contributions

- Spearheaded the initiative to lead thousands of international community members in establishing several works of art representing Taiwan on Reddit's r/place 2022 and 2023 canvas, viewed internationally by millions of people
- Actively engaged in negotiations and diplomacy with 50+ different communities on behalf of the r/Taiwan community to achieve common goals

EDUCATION

BSc. with Honours in Computer Science CO-OP, 4th year.

2019 – 2023 Ottawa, ON, CA

- Received admission bursary for >90% admission average.
- Achieved highest CGPA of 9.28 (10 scale) (current: 9.15)

SKILLS & LANGUAGES

Java Python Javascript Dart
HTML/CSS SQL Typescript SCSS

Vue React Angular
Electron Android with Flutter
PostgreSQL/MySQL MongoDB
OpenAI GPT

Vite Android Studio Figma
Firebase Git KiCad Next.js
discord.py Solidworks
Adobe Lightroom Photoshop

English (Fluent) Taiwanese Mandarin (Conversational) Japanese (Basic)

PROJECTS

Personal Website

2021 - Present

- Actively maintain portfolio website for displaying over 11 years of photography experience
- Developed management software for desktop and mobile for managing the website content

Bandori Score API & Discord Bot

2022 - Present

- Used Python, MongoDB, and Discord.py with OCR to extract scores from screenshots and generate statistics for the game BanG Dream!
- Utilized the Agile project management system to work efficiently on features and releases

Keyboard PCB Designs

2021-2022

- Conceptualized, prototyped, and sold multiple keyboard PCB designs
- Rapidly learned KiCad and Fusion 360 for design, and QMK/Vial for firmware programming