

HOWARD TSENG

@ me@howardt12345.com +1 (647) 339-2788 howardt12345.com github.com/howardt12345 linkedin.com/in/howardt12345

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 the use of AI in qualitative research tools through participating in an AI hackathon
 - Integrated semantic search in the platform and developed a theme extraction prototype with OpenAI GPT
- 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 within the platform

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

Jan 2022 – Aug 2022, Jan 2023 – Aug 2022 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 front-end and back-end of 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 to interpret, store, and generate statistics on scores from screenshots of 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