

Tyson Line

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Portfolio Website: <https://tysonline.github.io/Portfolio/>

Experience

Mobile App Designer

May 2024 - September 2024

Practice Positivity | Cayman Islands

- Initiated the design of the Practice Positivity mobile app by implementing **user-friendly interfaces** and a seamless UX.
- Developed detailed **functional** requirement documents by outlining app features, **user flows**, and technical specifications.
- Created **wireframes** and **prototypes** to visualize the app's design and functionality.
- Conducted comprehensive research on competitors to identify **market trends** and best practices.
- Explored and evaluated different **databases** and back-end technologies to recommend solutions for efficient data management and **scalability**.
- Provided strategic **insights** on utilizing social media platforms like TikTok and Instagram to promote the company and the app, enhancing **brand visibility** and user engagement.

Ad Fraud Detection Intern

March 2023 - May 2023

Brave Software | Remote

- Reduced fraudulent activities on Brave by programming **innovative** countermeasures and thorough data analysis.
- Successfully researched and identified **automation scripts** and software taking advantage of the Brave ads reward system.
- Broke down, modified, and **improved** the scripts. Wrote a Python program to detect mouse movements and determine the likelihood of script usage for a new **fraud detection** program on the Brave Ads platform while considering human mouse interaction and mouse accessibility settings.

Website Designer

May 2024 - September 2024

Healthy Futures, Ltd. | Cayman Islands

- Designed and built websites using **Wix** cloud-based development platform.
- Differentiated pages, creative and **graphic design**
- **Image editing** and text/image layout, with mobile formatted version.
- Developed customer response form with customized **data entry** fields and drop-down lists.
- Tested and **debugged** using select focus groups, integrated ideas from team members to make functional improvements ahead of launch.
- **Designed** company logo, business cards, and imagery for **marketing** materials for the website.

Recommendations

Terry Mancy - Brave Software

*Senior Staff Software Engineer specialising in desktop and mobile app development. Successfully launched 60+ apps and games over 35+ years
August 21, 2023, Terry managed Tyson directly*

“I highly recommend Tyson for his exceptional contributions to fraud detection within the Brave Ads platform. His dedication to developing innovative solutions and deep understanding of the intricacies of ad fraud was instrumental in safeguarding our advertising ecosystem. His meticulous approach to analyzing data and implementing countermeasures will significantly reduce fraudulent activities, boosting the confidence of both advertisers and users. Tyson's collaborative nature and commitment to excellence will make him an invaluable asset to any team.”

Projects

Rentify Application

Full Stack App Development with Android Studio

- Built a full-stack rental application using Android Studio, integrating Firebase for real-time database functionality and dynamic data retrieval.
- Collaborated effectively within a 4-person team to design and implement core features, ensuring seamless user interaction and robust performance.
- Designed and implemented user-friendly interfaces to simplify property leasing and rental management processes.

uOttHack 7 Hackathon

Effectively worked within a 4-person team to design and develop a full-stack application inspired by Workday using JavaScript, TypeScript, React, Next.js, and Tailwind CSS.

- Implemented Groq AI and MongoDB Atlas for intelligent data processing and storage solutions.
- Engineered real-time database connectivity with dynamic update functionality.
- Integrated natural language processing and file upload capabilities to enhance user experience and streamline interactions.

Therapy Robot

Full Stack App Development

- Developed a Rogerian therapy robot using a LLM and a Raspberry Pi embedded in a stuffed animal to simulate empathetic conversations.
- Developed speech recognition and text-to-speech software to interact with users
- Leveraged natural language processing and Rogerian therapeutic techniques to provide empathetic responses
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Education

University of Ottawa, Ottawa, ON | 2023-Ongoing

Enrolled in: Honours BA in Computer Science

Skills & Certifications

Soft: Accountable & Coachable, Proactive & Flexible, Effective communicator, Organization and Task prioritization

Technical:

- Microsoft Office Tools
- Python, Java, Javascript, React, Typescript, Kotlin Android Studio
- Adobe Premiere Pro, Photoshop, SolidWorks, CodeRunner, Visual Studio Code, Eclipse, Webstorm
- French (verbal)
- Engine repair and maintenance
- PC assembly and upgrades

Volunteer Work

STEM Camp Counsellor

University of Cayman Islands STEM camp

03/23 – 05/24

- Improved the skills of 100+ students in Arduino Systems and C++ by developing engaging and insightful lesson plans.

Awards

- \$2000 Entrance Scholarship to University of Ottawa
- St. Andrew's College - Ontario Scholar (>80% overall High school grades)
- St. Andrew's College - 3 time Scholar and Merit Award winner
- Cayman Prep - French Studies top student