JUSTUS CROSKERY

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EXPERIENCE

Webmaster - Hart House Singers

What I built: hhsingers.sa.utoronto.ca

📅 October 2022 - Currently   📍 Toronto

- I build, test, and write the website content for the Hart House Singers website
- Besides providing details about the choir to our 80+ members, the site also informs members of the public about our concerts.

Logistics Associate - UTMIST

What I organized: Hack the Mist

📅 January 2023 – Currently   📍 Toronto

- Helped organize UTMIST's annual machine learning hackathon
- Brought insights from previous machine learning hackathon projects to the team

HACKATHON PROJECTS

QuickPosts - https://devpost.com/software/quickposts

- QuickPosts posts an AI-generated marketing image and caption to Twitter, given a user prompt
- QuickPosts uses advanced machine learning algorithms and production-ready builds to make marketing accessible to anyone
- Try it! quickposts.ca

GrocerBuddy - https://devpost.com/software/grocerbuddy

- GrocerBuddy finds the cheapest prices for grocery items in an easy-to-use list format
- Led my team through their first hackathon and successfully demoed our project
- Used mathematical optimization and various Python frameworks, such as Selenium, to fetch data in real-time and display it immediately

AWARDS

Capture the Flag UofT 2023: First Place

- Led my team to first place in a university-wide team cybersecurity competition
- Learned about common vulnerabilities in software and how they can be exploited

2022 Canadian Computing Competition (CCC): Top 100

- Score: 48/75, top 100 overall

SAT: 99th Percentile (1590/1600)

- Scored 1590 (790 English, 800 Math) on first and only attempt

EDUCATION

Computer Science - 4.0 GPA

University of Toronto

📅 September 2022 – Currently

Extracurriculars: Singer in four choirs, debate winner for AI ethics event

PERSONAL PROJECTS

All projects can be found on my GitHub, linked in the header.

RPSOnline: Online Multiplayer Rock, Paper, Scissors

- Backend written in Rust, frontend written in JavaScript, uses a MySQL database
- Uses Websockets to facilitate communication between server and clients and to reduce CPU load

Jeopardy: Web Version of the Famous Video Game

- Bluetooth-paired gaming controllers can be used as buzzers to answer questions
- Keeps score and includes daily doubles, two rounds, and final jeopardy

Logi-robot: rPi powered remote controlled robot

- Used spare parts from around the house to construct a remote-controlled robot
- Included real-time drive controls, camera footage, and ultrasonic ranging as a proof of concept for a search-and-rescue robot

Gnome-email-notifications (Contributer)

- Fixed multiple bugs in an extension for the GNOME desktop environment on Linux
- Built using JavaScript, integrates into the GNOME shell

FAVOURITE TECHNOLOGIES

RUST   LINUX   JAVASCRIPT   PYTHON
DJANGO   JAVA   R   TYPESCRIPT
NODE.JS   C   C++   HTML5   CSS3
TAILWIND   BOOTSTRAP   BLUETOOTH
DIGITAL OCEAN   CLOUDFLARE   MYSQL
RASPBERRY PI   GMAIL API   AWS