Rafe Murray

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Work Experience

JMA Consulting, Junior Software Developer   May – August 2024
- Reimplemented Django Python scrapers of Canadian elected officials' information on 75 websites and stored it in a database for later use by a petition service
- Created functionality using a low code framework and PHP to manage counselling waitlists and scheduling appointments for the Sexual Assault Centre of Edmonton
- Developed displays of candidate information in PHP for an online educational certification system for the Construction Industry Licensing Board of Florida
- Created an internal GitLab CI/CD pipeline using a bash script that patches site files on code pushes, notifying an administrator if there are issues, otherwise merging the changes to the repo

JMA Consulting, Junior Software Developer   July – August 2023
- Developed a client management application for a software company specializing in building websites and constituent relationship management systems for nonprofits
- Implemented custom entities to represent contracts, servers, clients, websites
- Created PHP script to import Excel data into MySQL database
- Created form in PHP to on-board new clients and create relevant entities

Education

University of British Columbia, BASc in Computer Engineering   Sep 2023 – May 2027
- Achieved a 91% average in first year, placing on the Dean's list
- Earned 98% in Introduction to Computation in Engineering Design (APSC 160)
- Received the Trek Excellence Scholarship for first-year marks in top 5% of program

St Michael's Choir School, High School Diploma   Sep 2012 – Jun 2023
- Graduated with the Governor General's Academic Medal for the highest average in the graduating class at a top-ranked school, Extended French Certificate, Ontario Scholar and John Arab Memorial Scholarship
- Received awards for Advanced Functions, Calculus and Vectors, Chemistry, French, Physics and Vocal Music

Projects

Mechanical Claw   February – March 2024
- Wrote an Arduino C++ program to read a sensor indicating when an item was in range of a claw, and then controlled a servo motor to gradually close the claw on the item

Tic-Tac-Toe Bot   July 2023
- Developed a bot in C to read player inputs and implement strategies to always win or draw a Tic-Tac-Toe game

Arduino memory game   December 2023
- Created a game on an Arduino where a player presses buttons in the order that corresponding lights had randomly flashed, with each round increasing speed

Skills/languages

- Python, C/C++, PHP, JavaScript, Angular, HTML, CSS, MySQL, PostgreSQL, Git, GitHub, GitLab, Bash, ZSH, SSH, MATLAB, VSCode, Vim
- Linux Foundation's Linux System Administration Essentials course certificate

Accomplishments and Awards

- First place in school in University of Waterloo mathematics contests for grades 9 through 12 (Pascal, Cayley, Fermat, Euclid and Senior Mathematics)
- Participated in the Lloyd Auckland Invitational in 2022, an invite-only week-long event held for 70 top students in Waterloo's Fermat contest