Ethan Brydon

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WORK EXPERIENCE

Programmer   **September 2021 – Current**

Employment and Social Development Canada   Ottawa, Ontario

- Designed and updated utility programs in accordance with client specs and requirements, using the techniques and organizational standards I learned through my training

- Analyzed and debugged issues with programs on the ESDC mainframe using various techniques and critical thinking skills to ultimately optimize and resolve problems within the programs

- Optimized programs that handle millions of EI claims by merging logic from multiple programs and adding code to speed up processing.

APPLIED PROJECTS

Developer   **September 2020 – January 2021**

Stock Market Simulation Web App

- Designed a professional looking website using HTML and Pug and implemented JavaScript to handle backend logic for the operations of the web app

- Built a client-server architecture using Express and implemented various HTTP requests to handle events and share data to create a fluent user experience

- Collaborated and organized responsibilities with assignment partner using Notion and GitHub, which allowed for developments to be made flawlessly on both ends

Programmer   **September 2020 – May 2021**

Java Development

- Brainstormed ways to develop fast implementations of Java data structures and analyzed Big O runtimes of data set operations which did over 5.3 million operations on data sets of over 4 million elements in under 4 seconds

- Tested and debugged issues with implementations using debug mode, as well as print statements which allowed for the identification and improving of runtimes and program issues

- Optimized original implementations of certain data structures to accomplish specific tasks by making minor adjustments, which resulted in over 20% faster runtimes

EDUCATION

BCS. Honours, Co-op Option, with Minors in Math and Business   **September 2019-Current**

Carleton University, Ottawa, ON

- Third year standing, 10.4/12 (A-)
- Carleton A.D. Duntan Scholarship
- Frosh Facilitator (2020)
- Volunteer – Dr. Elizabeth Stobert Human-Computer Interaction Lab (2019)
- Expected Graduation Year: 2024

TECHNICAL SKILLS

• Java • Python • C/C++ • JavaScript • Microsoft Office • Soft. Dev. • Git • HTML5 • Pug • Eclipse • MATLAB • MS Teams • IntelliJ • Linux • REST • MongoDB • Postman • Node.js • COBOL • Debugging • VS Code • SQL

INTERESTS

• Cloud Computing • Cryptocurrency/Blockchain • Machine Learning • Football • Video Games • Space Exploration

AVAILABILITY

Available for 4 or 8-month work term beginning January 2023.