Aaron Grubb

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Professional Statement

As a software developer, I am committed to producing high-quality code that is both efficient and easy to maintain. I believe that writing clean, performant, and maintainable code is crucial to ensuring the longevity and success of any software project.

To achieve this goal, I am constantly seeking new knowledge and skills to improve my craft. I recognize that there is always more to learn, and I am eager to learn from those who are more knowledgeable and experienced than myself.

Technical Skills

- ReactJS, Javascript, HTML, CSS, C, SQL, Figma
- AWS (DynamoDB, S3, Amplify, Cognito)
- Jest (Unit testing) and Cypress (E2E, Component testing)
- Git

Other Skils

- Organizational skills and ability to manage multiple tasks and responsibilities
- Strong communication and interpersonal skills
- Fast learner with a strong aptitude for grasping new concepts
- Strong analytical skills that allow for rapid problem-solving

Work Experience

BTRHire December 2021 - Current
Freelance Software Developer

- Developed a web-based testing application (BTR Applicant) with a corresponding application for test administrators (BTR Client) using React, AWS DynamoDB, Cognito, Amplify, and S3
- Created and maintained data models and schemas for the two BTR applications
- Designed, implemented, and iterated on all UI elements
- Created modern, responsive business website, www.btrhire.ca

Dalhousie University January - April 2023
Teaching Assistant (Web Design and Architecture)

- Assisted students in completing in class coding assignments
- Taught basic concepts for HTML, CSS, TEI XML, and XSLT
- Helped facilitate in class discussion on various web development topics

University of Guelph September - December 2021
Teaching Assistant (Discrete Structures in Computing I)

- Created and presented supplementary teaching material
- Supervised two hour labs, two to three times a week, explaining concepts and answering questions
- Helped create grading schemes and graded over 100 assignments

University of Guelph May - August 2021
Undergraduate Research Assistant

- Expanded upon my previous research in the fields of Combinatorial Generation and Graph Theory
- Published a research paper based on my findings in the COCOON 2021 Conference and presented online during the conference
- Created various spanning tree generation programs in the C programming language to aid research

Brinkman Reforestation Inc. May - July 2020
Tree Planter

- Worked four out of every five days in often harsh conditions without missing a day
- Planted roughly 120 000 trees

Education

University of Guelph September 2017 - April 2022
B.Comp, Honours
Computer Science, Mathematics Minor
89 GPA

Publications

Cameron, B., Grubb, A., & Sawada, J. (2021, October). A pivot gray code listing for the spanning trees of the fan graph. In *International Computing and Combinatorics Conference* (pp. 49-60). Springer, Cham.

Cameron, B., Grubb, A., & Sawada, J. (2022). Pivot Gray Codes for the Spanning Trees of a Graph ft. the Fan. *arXiv preprint arXiv:2202.01746*.