Jamie Graham

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EDUCATION

University of Western Ontario

London, Ontario

Honours Double Major in Physics and Applied Mathematics;

Class of 2021

- Academics: Cumulative GPA: 3.97/4.00, Dean's List (2018-2021), Western Scholarship of Excellence.
- Awards: The Western Gold Medal for Double Major in Physics; awarded to top academic student in module. The Western Gold Medal for Double Major in Applied Mathematics; awarded to top academic student in module. The Donald R. Hay Prize in Physics; awarded to top student in physics honours undergraduate thesis course. The 49' Prize; awarded to top student in MATH1600 Linear Algebra. Awarded for final mark of 100%.

University of Toronto (3rd Year of BSc)

Toronto, Ontario

Honours Double Major in Physics and Applied Mathematics;

2019-2020

- Academics: Transfer Student for Year 3. Cumulative GPA: 3.97/4.00, Dean's List (2020),
- Awards: Reuben Wells Leonard Scholarship; awarded to one physical science student for excellent academic standing.

WORK EXPERIENCE

Full Stack Software Development

Toronto, Ontario

Freelance Full Stack Developer

Sept 2020 - Present

- Developed MERN stack research blog, demonstrating skills in RESTful API's, Node.js, React.js, HTML, CSS, JavaScript, Express.js, Authentication, MongoDB.
- Completed courses in fundamental computer science/scientific computing, developing MATLAB and Python skills.
- Finished several practice projects (blogs, widgets, landing pages, personal sites, etc) demonstrating skills in above technologies, as well as OAuth, SQL, Strong UI/UX design, JQuery, Bootstrap, Design Theory, best coding practices.

Nonlinear Waves Group at UWO

Toronto, Ontario

Theoretical Fluid Dynamics Research Assistant

May 2021 – Aug 2021

- Generalized the 2D non-local water wave formulation to 3D, deriving Olver's twelve conservation laws for the 3D hydrodynamic problem using new formulation rather than underlying Lie symmetries/Noetherian approach.
- Adhered to project guidelines and meeting times with high proficiency
- Presented literature analysis, methodology/theory, research findings with high level of clarity in lab presentations.

Sunnybrook Hospital Hurvitz Brain Sciences Centre

Toronto, Ontario

Computational Neuroscience Research Student

May 2018 – May 2019

- Developed motion tracking and signal processing software in Python and MATLAB to analyze neurobiological experimental data, from ultrasound recordings to local field potentials in the rat brain.
- Increased experimental acquisition efficiency by 50% through the development of a particle tracking velocimetry code that automated vessel velocity recordings in the brain which drastically reduced data analysis time.

EXTRACURRICULAR ACTIVITIES

Music and Theatre

London, Ontario

Actor

Oct 2018 – Present

• Acted in lead role of Stephen in Western Theatre's production of If/Then: by Brian Yorkey in 2018

Writer/Composer

Dec 2018 - Aug 2020

• Co-wrote, co-produced, and composed independent production of *To Family: A New Musical* from 2018-2020

Singer-Songwriter/Producer

Jan 2020 - Sept 2021

Wrote, recorded, and produced independent singer-songwriter album Hurricane Violet: from 2019-2021

ADDITIONAL INFORMATION

- Interests: Songwriting/Composition, Film, Theatre, Basketball, Mathematics.
- Certifications: The Complete 2021 Full Stack Web Development Course Udemy Certificate of Completion.