

Eric Smith

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Education

University of British Columbia

B.A. Computer Science

Graduated April 2025

Certifications

CompTIA A+

- Core 1 - Completed
- Core 2 - In Progress

Technical Work Experience

UBC Research - Healthy Exercise and Aging lab

June 2024 - April 2026

Research Assistant

- Innovated use of entropy code with the help of AI as a new method of analyzing neuromuscular signals and neuromuscular health in aging populations
- Developed and tested code to analyze neuromuscular stability and strength
- Troubleshoot hardware, software, and network issues for lab team daily
- Created and delivered academic presentations to a variety of audiences
- Facilitated medical data collection across a wide demographic of participants

UBC Research - Virtual Reality Co Design

January 2024 - August 2025

Student Participant and Research Assistant

- Developed Virtual Reality applications in an agile software development system
- Facilitated use of Virtual Reality technologies in older adult communities
- Created and delivered presentations describing academic papers to a variety of audiences
- Facilitated technical data collection across a wide variety of participants

Technical Skills

Proficiencies

- Python
- Java
- SQL
- MATLAB
- Git/Github

Competencies

- R
- HTML
- Javascript
- Assembly Language

Technical Projects

Homelab

- Created my own domain and personal email host. Synced devices with Tailscale including desktop PC, Laptop, mobile phone and Synology storage system. Implemented docker containers on a self-hosted synology system.

(Docker | AI | Networking)

Image Aesthetics Survey - UBC Capstone Project

- Founded a website to survey users to decide which image was more aesthetically pleasing. Created our own mathematically generated images to compare with images from a set. Used data metrics to gauge which traits are associated with aesthetics among different populations. Honed agile development, testing, AI Coding and deployment skills.

(Python | JavaScript | SQL | Docker | AI)

TypeSelect Trackpad Alternative

- Created an alternate desktop navigation method using keyboard shortcuts instead of a mouse or trackpad. Mapped different keyboard inputs to basic desktop functions to save time. Performed statistical analysis to prove efficacy amongst participants.

(Unity | Python | MATLAB)

Work Experience

Motherlove Ferments - Kelowna, BC

April 2023 - December 2023

Brewing Assistant

- Assisted and led in brewing practices including brewing kombucha, running cleaning cycles on vessel and kegs, and crafting flavor concentrates
- Maintained highest sanitation standards throughout the brewery
- Developed recipes and crafted original kombucha flavors
- Provided high level customer service and utilized Clover POS technology

Canada Malting Company - Calgary, AB

Summer 2022

Summer Student - Operations

- Worked with IT team to uphold PLC systems and server performance
- Maintained pristine conditions of industrial plant, including cleaning large germination beds, managing dust levels of kilns, and maintaining grounds
- Operated heavy machinery such as forklifts, industrial hoses/washers
- Worked in extreme conditions such as heat, and dust/debris
- Trained to safely work with hazardous chemicals

Publications

Shamim Noroozi, **Eric J.G. Smith**, Madison M. Sagert, Jennifer M. Jakobi, Sabine Weyand,
Detecting tap events from a foot-tapping test with an accelerometer: Validation of Teager-Kaiser energy
operator and discrete wavelet transform,
Biomedical Signal Processing and Control,
Volume 124, 2026, 110739,
ISSN 1746-8094,
<https://doi.org/10.1016/j.bspc.2026.110739>.

References available upon request

