Tyler James Malloy

SOFTWARE SKILLS

PROF. Python (Flask, Qt); Amazon AWS (Elastic Beanstalk, EC2, S3); C++ (Qt); MySql (sqlalchemy); HTML/CSS/JS; PERL; UI/UX; Robot Ethics Research; Server Maintenance and Upkeep

PROJ. AI (Group Decision Theory) Machine Learning (PyTorch); Multimedia Data Processing (OpenCV, FFMPEG); Web Development (Angular 2, MongoDB)

WORK EXPERIENCE

SEPTEMBER 2017 - PRESENT

University of British Colombia
Research Volunteer

- Front End web development using Angular 2 and UI/UX design for a web application designed to visualize group decision problems.
- Developed a tutorial and analyzed results from case studies to enhance the user experience and simplify the learning process. Project page

MAY 2017 - PRESENT

University of British Colombia
Research Assistant/Web Developer

- Full-stack web development using Python Flask, MySQL, Amazon Elastic Beanstalk and S3 and UI/UX design for an ethics survey application
- Developed survey questions, analyzed and visualized results from surveying, and assisted in writing academic papers. Github Link

MAY - DECEMBER 2016

University of Innsbruck
Lab Assistant/Software Developer

- Lead developer for a lab software for controlling hardware and other software used in quantum optics physics experiments.
- Managed a team of physics researchers occasionally contributing the project.
- Improved data visualization of physics experiment data with many parameters.

JANUARY - AUGUST 2015

McKesson Medical Imaging
Software Test Engineer

- Developed, maintained, and updated PERL performance testing scripts running on the frontend and backend of a web application.
- Designed tools for the client technical support team to analyze user issues.
- Assembled and maintained a lab server system hosting 60+ virtual machines running load, performance, and network balancing tests.

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PUBLIC PROJECTS

NOV 2017 — **Medical Image Classifier**
Medical Image Classification using Convolutional Neural Networks

SEPT 2017 — **Cognitive Modeling Experiment**
Simulated binocular rivalry using an cognitive model of vision

MAY 2016 — **Video Triangulizer**
Low-polygon video/image processing using OpenCV and FFMPEG

JAN 2016 — **Personal website**
Amazon AWS hosted personal website using Python Flask

EDUCATION

2013-2018 — **University of British Columbia**
Double major: first in B.Sc Cognitive Systems: Computer Intelligence; second in B.A Philosophy
Major GPA: *84%, A-, 3.9/4.33*
Cumulative: *79%, B+, 3.6/4.33*

SELECTED COURSES

Artificial Intelligence/Machine Learning

STAT 406 Statistical learning (Curr.)
CPSC 422 Adv. artificial intell. (Curr.)
CPSC 406 Comp. optimization (Curr.)
CPSC 340 Machine learning (91% A+)
CPSC 322 Intro artificial intell. (78% B+)
CPSC 312 Functional/Logical prog (77% B+)

Cognitive Systems

PSYC 365 (Cog. Neuroscience) (87% A)
COGS 402 (Research in COGS) (87% A)
COGS 303 (Research Methods) (88% A)
COGS 300 (Designing COGS) (87% A)
PHIL 320 (Logic: Computability) (88% A)
PHIL 433 (Bio-medical Ethics) (77% B+)

AWARDS AND ACKNOWLEDGEMENTS

2014, 2016 — UBC Deans Honors List

2014-2016 — Faculty of Science International Student Scholarship.

2016 — Go Global International Learning Programs Award.

2013 — Outstanding International Student Award.