Sam MacKinnon

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SKILLS

Multimedia Production (10 years): Award-winning animator (Ottawa International Animation Festival, 2006). Also experienced with illustration, video production, and graphic design using Adobe Creative Suite.

Interactive Design(3 years): Experienced with learning module and online course content creation.

Software Engineering (2 years): Experienced with programming web apps from scratch using languages and frameworks such as JavaScript, jQuery, Typescript, Node.js, Express.js, HTML5, CSS/Less, MySQL, and MongoDB. Also experienced with Git, Java, Haskell, Prolog, and AS3.

Big-picture Thinking: Skilled at synthesizing information, combining multiple disciplines, and visualizing how individual parts of a project fit into a whole.

Communication: Strong ability to distill down complex information into easily digestible forms through writing and video.

EDUCATION

University of British Columbia

B.Sc. Integrated Sciences

(2013 - 2017)

 Interdisciplinary science degree focusing Computer Science, Life Sciences, and Science Communication.

Selkirk College

Contemporary Music

(2006 - 2008)

Focus on percussion, and writing music for film and television.

MULTIMEDIA DEVELOPMENT

Multimedia Designer and Programmer

April 2016 – July 2017 (contract)

Physics, UBC (Vancouver, Canada)

- Designed interactive JavaScript web apps for UBC's Physics 100 online course.
- Found and implemented a simple solution for embedding interactive videos with quiz break-points into the course.
- Produced videos and animations to explain difficult physics concepts to students.
- Created a website to host videos and interactive content, which can then be easily embedded into websites and online courses.

 www.veryscience.com/physics100.html

Full Stack Developer

December 2016 – present (personal project)

Palette Machine (Vancouver, Canada)

- Created the website <u>www.palettemachine.com</u>, an interactive color palette design tool.
- The web app is hosted with Firebase, and has a fully functional back end which allows users to sign in, save, edit and load palettes.
- I used SVG graphics and a drag-and-drop interface to give designers the best possible experience when creating a color palette.

Learning Module Designer

May 2015 - September 2015 (work study)

Medical Genetics, UBC (Vancouver, Canada)

- Worked as a lead designer on three online modules for teaching medical students about the genetics associated with PKU, Down Syndrome, and Bipolar Disorder.
- Produced interactive graphics for modules.
- Filmed, edited and did interviews for "Patient Perspective" videos that were embedded into the modules.

Videographer and Designer

September 2014 - April 2015 (work study)

Genetics Counseling, BC Children's and Women's Hospital (Vancouver, Canada)

- Acted as a lead designer for an online genetics counseling decision aid.
- Produced, directed, edited videos explaining important information pertaining to getting one's genome sequenced.

Science Game Designer

May 2014 - September 2014 (work study)

Michael Smith Labs, UBC (Vancouver, Canada)

- Designed gameplay and visual layout for genetics-themed card game funded by the Genetics Society of America (GSA).
- Game was printed and distributed to scientists at a genetics conference in 2016.

Director/Editor

May 2014 - June 2014 (contract)

Telus/Public Records (Vancouver, Canada)

- Awarded a \$7000 budget from Telus/Public Records to produce a music video for the indie rock band the Ruffled Feathers.
- Managed a 10-person professional production crew.
- Edited and delivered final video on time and on budget.
- Video aired on Telus Optics TV.

VOLUNTEER WORK

Computer coding instructor - Green Timbers Elementary (Vancouver, Canada)

July 2016: Help to design and run a coding workshop for kids.

Programming Assistant - Telus World of Science (Vancouver, Canada)

September 2013 - May 2014: Helped to design and facilitate science exhibits for kids.

ONLINE PORTFOLIO

Please visit <u>sammackinnon.ca/portfolio.html</u> to see more of my work.

References available on request