

# Alex Koen

✉ alex@koen.ca | 🌐 alexkoen.com | ☎ (778) 834-7794 | 📍 North Vancouver, BC

## Summary

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- Second-year engineering physics student at the University of British Columbia (average 92%).
- One year of experience designing and building web and mobile applications for healthcare professionals.
- Excels as part of a team, both in leadership and peer environments.
- Currently working to apply computer vision technology to surgical robots.
- Effectively communicates ideas, both interpersonally and in writing.
- Learns quickly and has a propensity for getting things done.

## Relevant Skills

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**Development** JavaScript, React-[Native], Python, C++, OpenCV, OpenGL

**Tools** Git, Linux, Figma, Emacs

**Languages** English, French

**Certifications** CSIA Level 2, Red Cross First Responder

## Work & Volunteer Experience

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### Head Designer & Software Developer

*Sept. 2019 - Present*

MEDICAL APPLICATIONS IN SOFTWARE TECHNOLOGY - UBC BEST

- Worked with the Vancouver General Hospital and the Vancouver Radiology Institute to develop a web and mobile application for paramedics and emergency department radiologists.
- Completely redesigned the user interface to provide an intuitive and seamless experience.

### Vice-Chair of Communications & Web Designer

*Oct. 2018 - Jun. 2019*

YOUTH COUNCIL OF JONATHAN WILKINSON, MINISTER OF THE ENVIRONMENT AND CLIMATE CHANGE

- Elected as Vice-Chair of Communications after displaying a dedication to the council and an exemplary ability to communicate.
- Worked directly with the Minister and the media to present projects to the public.
- Built a responsive website from scratch to showcase our event, *Youth Visioning Our City's Future*, to the general public.

### Ski Instructor

*Dec. 2016 - Apr. 2019 (Seasonal)*

GROUSE MOUNTAIN RESORTS

- Worked with clients of all ages to provide them with a positive and memorable experience.
- Earned the Level 2 instructor certification within a year of employment and gained a higher level of responsibility within the department.

### First Responder Volunteer

*July 2015 - June 2019*

21ST CAPITANO MEDICAL VENTURERS & HANDSWORTH FIRST RESPONDERS TEAM

- Elected as president of the Handsworth First Responders Team.
- Helped others by working as a team to provide First Aid to those in need.

## Projects

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### Augmented Reality for Surgical Robots

*Apr. 2020 - Present*

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- Currently developing a motion parallax system to provide surgeons with improved depth perception when operating using the DaVinci surgical robot.

### Reflect: Stimulating Healthier Discourse on Social Media Using Neural Networks

*Aug. 2020*

UBC ROBOTICS AND CONTROL LAB

- Built a software tool, Reflect, that predicts the likelihood that a user's comment will lead to personal attacks given the context of the surrounding conversation.
- Identifies markers of politeness and impoliteness in text.