

# Natalie Smith | Developer

2446 Sinclair Rd – Victoria BC – V8N 1B3

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## Key Competencies

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- Hands on experience modern development tools and technologies
- Full-stack development
- Familiar with Agile methodologies
- Experience writing test plans, creating test cases and writing functional unit tests
- Ability to work effectively within a team setting while also being a motivated, proactive and self-starting independent worker
- Possess willingness and work ethic to learn new technologies and skills
- Extensive experience with customer service and practical problem-solving as well as exceptional written and verbal communication skills

## Technical Skills

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- HTML5/CSS3
- Angular 2
- Ruby on Rails
- SQL
- Responsive Design
- Javascript/jQuery
- Unit Testing
- JSON/XML
- C#/.NET
- Version Control

## Education

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**University of Victoria**  
*B.Eng, Biomedical Engineering*  
Specialization in Mechatronics

**Victoria BC**  
2011–2016

## Experience

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**University of Victoria**  
*Undergraduate Researcher*

**Victoria BC**  
May–Aug 2015

Worked in the Crystal Growth Laboratory designing a new control system for a 30 zone crystal growth furnace.

- Ran experiments on the crystal growth furnace including material preparation, furnace loading, and sample testing using a Scanning Electron Microscope
- Designed and implemented a fuzzy PID control system in LabView with adaptive control for the crystal growth furnace

**University of Victoria**  
*Undergraduate Researcher*

**Victoria BC**  
Sept–Dec 2013

Worked in the Biomedical Design and Systems Laboratory developing a medical phantom for use in testing and calibrating an ultrasound-controlled hand prosthesis.

- Designed and developed a medical phantom representing the ultrasonic properties of the tendon-hand system
- Tested prototypes and determined ultrasonic properties of materials
- Used an Ultrasonix ultrasound machine and MatLab to capture video and images of phantom prototypes

### Island Health

Victoria BC

*Clinical Engineering Co-op*

Jan–Apr 2013

Worked in the Biomedical Engineering department of Island Health to assist in tasks such as device procurement and installation, cost analysis, preventative maintenance, and consulting with medical professionals.

- Assisted in medical device procurement and installation in hospital settings
- Performed cost analysis for major contract renewals
- Performed preventative maintenance on medical devices such as infusion pumps, defibrillators, and AEDs
- Consulted with medical professionals within multiple health networks across Canada in preparation for a networked fetal monitoring system

### Saanich Commonwealth Place

Victoria BC

*Team Leader, Facility Attendant*

2011–Present

Work in supervisory roles as a Team Leader and Facility Attendant to oversee multiple staff and ensure that programs are running safely and effectively.

- Team Leader: Directly supervise a team of lifeguards to ensure safe pool coverage, oversee first aid situations, mediate public relations situations and provide excellent internal and external customer service
- Facility Attendant: Responsible for overseeing all facility programs, coordinating and providing back-up for all staff and conducting emergency procedures in case of emergencies

## Technical Projects

**Web Development:** Developed multiple full stack web applications in both Ruby on Rails and Angular2. Portfolio available upon request.

**Mechatronics:** Designed the firmware to accomplish a conveyor belt sorting task

- Integrated multiple sensors, actuators and motors with a microcontroller programmed in C

**Neural Networks:** Designed a neural network to classify data instances in an online breast cancer database as malignant or benign

- Used MatLab to implement a three-layer feedforward neural network to automatically classify instances of breast cancer malignancy

**Biomedical Image Processing:** Solved task of retinal vessel segmentation in retinal images by using MatLab to implement adaptive local thresholding by multithreshold probing

## References

Dr. Nikolai Dechev	Dr. Kelly Stegman-Brooks	Michael Sheehan
Associate Professor University of Victoria Biomedical Design and Systems Laboratory 250-721-8933	University of Victoria Biomedical Design and Systems Laboratory kstegman@uvic.ca	Program Technician Saanich Commonwealth Place 250-475-7607

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**Society6**

April 17, 2017

Dear Sir or Madam,

I am writing to apply for the software engineer position advertised; I feel that my skills and experience would make me an ideal candidate for this role.

I have been passionately pursuing software development challenges through academic electives, co-op positions, and personal projects. These experiences have turned me into a skilled developer who can help Society6 to achieve its vision of the future. I am practiced at using a variety of web development technologies such as HTML5/CSS3, Javascript, Angular2, Ruby on Rails, C#/.NET and MySQL.

Further, I have technical project experience in several additional skills which Society6 may find useful, including test driven development and image processing working in C/C++ and MatLab.

My wide-ranging work experience has given me the ability to work effectively within a team setting while also being a motivated, proactive and self-starting independent worker. I value clear written and verbal communication to ensure projects are completed efficiently. I also have excellent problem-solving skills which allow me to deal with the unknown and unexpected. I am extremely resourceful with the willingness and work ethic to learn new technologies and skills in the ever-changing field of software development.

I believe that my experience, drive and passion for learning and hard work would make me an excellent addition to the Society6 team. I look forward to hearing from you.

Sincerely,

**Natalie Smith**

*Attached: Resume*