

# Petra Clementson

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## Education

BSc, Computer Science Major, Ocean Science Minor (in progress)  
*University of Victoria*

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## Recent Projects

- > Writing an online journal discussing my struggles and accomplishments as an intern at Bandcamp in order to assist future interns intent on applying for technical positions. (<http://bandcampintern.wordpress.com/>)
- > Implemented a database design and web interface to simulate an airport's system of organizing flights using Java servlets, HTML and SQL.
- > Collaborate with VENUS, IOS and independent researchers in the field of Ocean Sciences to reconfigure and assemble oceanographic data from Saanich Inlet using MatLab.

## Work Experience

Most Valued Intern (May 2013 – present)  
Bandcamp – San Francisco, CA

- > *Use problem solving and debugging techniques to improve the payment system with PayPal by updating Ruby, HTML and the templating language, Liquid.*

Instrument Performance Monitoring Project Intern (Jan 2012 – May 2012)  
Gemini Observatory – Hilo, Hawaii

- > *Responsible for developing the performance monitoring scripts for 2 infrared imaging instruments using Python. Refactored the codebase for modularity and optimization.*

Programmer Intern (Jan 2011 – Apr 2011)  
Gemini Observatory – Hilo, Hawaii

- > *Assisted in the development of the astronomical calibration association database using XML, HTML, SQL and the Python ORM layer, SQLAlchemy.*

PT Manager/Deli Clerk/Cashier (Jun 2009 – Sep 2010)  
Safeway Supermarket – West Vancouver, BC

- > *Managed the Deli team, building customer and coworker relations and prioritizing daily tasks.*

## Volunteer Experience

Women in Engineering and Computer Science Co-President (Sept 2012 – present)  
UVic, Computer Science Department, Victoria BC

- > *Started the Women in Engineering and Computer Science group at UVic to encourage diversity within the department by increasing female retention.*
- > *Fostering conversation by inviting speakers from industry and education.*
- > *Established educational clinics for first year computer Science students.*
- > *Conducted outreach education to Brownie troops.*

SPARCS Volunteer (Sept 2012 – present)  
UVic, Science Venture Club, Victoria BC

- > *Teaching ongoing weekly courses to 8/9 year olds encouraging the appreciation and enthusiasm for programming and technology through the program SPARCS: Solving Problems with Algorithms, Robots and Computer Science.*

Soup Kitchen Volunteer (Oct 2006 – Dec 2010)  
Union Gospel Mission, Vancouver BC

- > *Prepared and distributed meals to the downtown community.*

## Training

- > *BC Superhost Program: a B.C. acknowledged customer service course that develops strong negotiation and people skills.*
- > *Structured Work Experience and Training Program: a merchandising/marketing course at the Art Institute of Vancouver.*

## Awards

*Certificate of Excellence in Finite State Machine Challenge (2012)*

*University of Victoria Grace Hopper Conference Scholarship (2012)*

*Passport to Education (2008)*

*Early Admission Scholarship (2008)*

*West Vancouver Youth Appreciation Award (2008)*

## Interests

- > *Ultimate Frisbee, camping, hiking, soccer, swimming, rock climbing, and gaming with friends.*
- > *I also play the guitar, trumpet and piano.*

## References

Available upon request