Siang Lim

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EDUCATION

University of British Columbia
Chemical Engineering,
Computer Science (Minor)
Graduation: May 2017

CGPA: 4.20/4.33
(87.5%, 'A' average)

Honors:
Dean's List, NSERC USRA

ACTIVITIES

UBC Chem-E-Car
Vice-Captain (2015 – Present)

Chemical Engineering Undergraduate Student Club
Webmaster (2015 – Present)

SKILLS

General: Python, Java, C, git, MATLAB, Excel VBA

Front-End: HTML, CSS, JavaScript

Back-End: Ruby on Rails, Node.js

WORK AND PROJECT EXPERIENCE

FortisBC Inc.

Engineering Intern - Summer May 2016 – Sept 2016

- Refined cost estimation algorithms for gas pipeline installation, leading to improved accuracy in a new Online Service Application tool.
- Developed business intelligence and data analytics tools in *Excel* and *VBA* for FortisBC's energy conservation programs.

UBC Chem-E-Car Design Team

Vice-Captain Sept 2015 – Current

- Proposed, created and maintained team website (*Bootstrap* framework) and built an expense tracking web app using *Ruby on Rails* to ensure financial transparency.
- Raised $50,000 in grants and corporate sponsorship. Expanded team from 7 to ~40 students in 2 years and streamlined organizational structure.

UBC Dept. of Computer Science

Co-Lead TA (Intro to C Programming) Jan 2016 – Current

- Assisted first-year engineering students with understanding technical concepts and helped debug their *C* code.
- Coordinated a team of 40 TAs that handled over 600 students, ensuring consistent grading practices across different lab sections.

RECENT RESEARCH EXPERIENCE

UBC MathBio Research Group

Undergraduate Research Assistant Sept 2015 – Current

- Conducted computational research for coupling protein signaling and mechanical deformation during Drosophila embryo development.
- Built simulations of epithelium cells using vertex-based models with a halfedge data structure in Python.
- Project focus is on extending the results of *Lan et al. (2015)* to a larger tissue and model rosette formation and resolution.
- Podium Presentation: "Modeling Cell Polarization and Intercalation During Drosophila Germband Extension", *2016 Northwest Biomechanics Symposium*