

Varun Patel

Student @ UBC Engineering
Development Lead @ Luscinia

- ▶ Vancouver, BC
- ▶ Ottawa, ON

Biography

Skilled programmer studying Engineering at UBC and founding director of Luscinia Enterprises, a registered BC nonprofit dedicated to advancing learning.

Microsoft Certified Professional:
Azure Administrator
Azure Fundamentals
Programming using Java

BC Scholarship for Applied Skills, Design and Technology
John O'Connor Mini School Spirit Award Recipient

Standard First Aid (Expired)
CPR-A AED

Education

09/2019 - Present

Engineering (B.A.Sc)

University of British Columbia

09/2014 - 06/2019

High School Diploma

Point Grey Mini School

Languages

English Fluent

French B2

Experience

Secretary, Software Development Lead
Past Chair of the Board of Directors

Luscinia Enterprises Assn.
Vancouver, BC

10/2017 - Present

Work on creating an integrated learning experience by using and implementing a diverse combination of online tools and feature sets related to machine learning, psychological analysis and learning styles. I am primarily involved in the creation of Aristotle, an open-source, extensible platform that enables students to complete diagnostic assessments of learning objectives and reports results to teachers while providing insights into how foundations can be strengthened to ensure that further learning is well supported by established expected outcomes.

My role consists of developing web applications leveraging Java Spring Boot, MongoDB, Redis, Python (Flask) and Node.JS on the back-end and a number of front-end technologies. I am also responsible for deployment of these applications as well as our analytics and caching services on Azure Kubernetes Service primarily by leveraging the power of Docker containers. As the lead technology contact for Luscinia I also manage our presence on Microsoft 365 and G Suite via Azure AD integration. When funding is available, we also employ 2-8 student interns who I am responsible for. These responsibilities include supervising web development and providing training on use of our software and tooling.

Central Poll Supervisor, Poll Clerk

Elections Canada
The Nest - Student Union Building, Vancouver, BC

10/2019, 09/2021

Building on experience as a Poll Clerk in the 2019 Federal Election, in 2021 I worked as the Central Poll Supervisor. I was responsible for managing our team of election staff which ranged from 13 to 18 people throughout the day. Additional supervisory responsibilities included conducting an accessibility assessment of the polling place, ensuring events and visitors are properly documented and enforcing the Canada Elections Act. During the 2021 Elections, I was also responsible for enforcing COVID-19 related rules. On Election day 2021, I worked 21 hours straight in order to ensure that every eligible citizen was able to vote, successfully processing one of the longest lines in the country at 3.5 hours.

Various Roles

Point Grey Secondary School
5350 East Boulevard, Vancouver, BC

09/2014 - 06/2019

Over 450 hours of service logged across multiple responsibilities including as Student Council Treasurer, Event Technology Coordinator, Computer Lab Technician, and more.

As Treasurer, I successfully managed a budget of \$XX XXX while reallocating spending to long term projects and maintaining the quality of existing events, beating fundraising targets by 15% and producing a new budgeting and account ledger that digitized existing paper documentation.

As one of 4 Event Technology Coordinators, I managed complex sound, lighting, and AV systems at school functions ranging from dances to remembrance day ceremonies. As a team we worked with the PAC to update technology in our aging auditorium as well as coordinate with multiple movie and TV show production teams to ensure that after filming, our equipment was returned in the correct state.

As the Head Computer Lab Technician, I worked with 4 other students to ensure that aging computer lab infrastructure including 20 computers, 2 managed networks, 1 server and 2 printers continued to be effectively maintained while providing plans for eventual phased replacement. I also supervised our late 2018 update from Windows 7 to Windows 10 by working with Vancouver School Board staff.

Skills

Java	5+ years
HTML	5+ years
CSS	5+ years
Python	3 years
C	2 years
Linux	4 years
Azure	3 years
Docker	3 years
Kubernetes	2 years

Contact

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 varun-patel
 varunp01
 S/MIME Public Key



Registration Official

10/2018

City of Vancouver
 Kitsilano Community Centre, Vancouver, BC
 General Gordon Elementary School, Vancouver, BC

In this election time position, I was responsible for comparing voter identification to a digital voters list, updating the digital and paper system should the voter wish to update their address, name or other identifying information, as well as explain the longest ballot in Vancouver's municipal election history. On voting day, due to my experience during the Advance Voting session, I was granted the additional responsibility of processing voters that had special situations, this included disabled voters who needed an assistant to help them fill ballots, non-resident property voters, and individuals who lacked necessary ID for whom a solemn declaration was required.

Junior Instructor

08/2017 - 08/2018

Geering Up!
 University of British Columbia, Vancouver, BC

Volunteer for 7-8 hours a day assisting with running activities and completing administrative work for Geering Up!. In the Junior Instructor role, I worked with 1-2 other volunteers and 2 instructors to manage classes of 15-25 kids aged 6-14. Over my 300 recorded hours of service, I worked with engineering and science discovery programs as well as game programming summer camps, providing my expertise in math, science, and computer science.

Web Developer (LAMP)

09/2015 - 06/2017

Point Grey Mini School
 5350 East Boulevard, Vancouver, BC

Leveraged capabilities of the LAMP stack to enable functionality on pgmini.org including the school district's only online field trip and consent form submission system. My original role consisted of assisting with the development of student pages with HTML, CSS, JavaScript, PHP, and MySQL. In more recent years, I shifted towards monitoring security of the website most significantly by identifying vulnerabilities in our implementation of Apache. In my final year at Point Grey, I also provided support to students and parents with explanations of features and assistance with account recovery.

Cashier, Customer Service Representative

12/2016 - 03/2017

A&W Canada Branch 0641
 Vancouver, BC

Opened store at 6am on Saturday and Sunday as a key holder, supervise morning shift workers and fill in as cashier, cook or prep depending on availability of other employees. At start and end of shifts, I balanced tills, recorded cash and withdrew/deposited from the store safe as needed. Also handled weekend food deliveries from GFS and ensured that delivery lists matched items delivered.

Participant

12/2017, 12/2018

Google Code-In

Participated in a contest run by Google Open Source by contributing to Ubuntu in 2017 and KDE in 2018.

At Ubuntu, my contributions included tutorials on how to set up an OpenVPN server, Squid caching proxy server, Postfix/Dovecot mail server and more on Ubuntu 16.04.

At KDE my contribution included code for KDE Partition Manager that reworked the GUI interface that displays hard drive SMART data, as well as multiple UI fixes for GCompris, their early childhood education suite.