Steven Song

Software Engineer | B.A.Sc. in Computer Engineering

Motivated Computer Engineering graduate with focus on Software Engineering and Machine Learning

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TECHNICAL SKILLS

Programming Languages	C, C++, C#, Java, Python Type/JavaScript, HTML/CSS	**Frame Work**	Angular, React, Bootstrap, ASP.NET, Node.js
Data Base	PostgreSQL, MySQL, MongoDb	**Machine Learning**	DNN, CNN, RNN, OpenCV, Regularization and Optimization
Developing	OOP, Algorithms, Data Structure, OS, Batch, PowerShell	**Tools**	IDE (VS Code, Visual Studio, Eclipse) Git, SVN, Docker, Jenkins

WORK EXPERIENCE

Software Engineer
Teledyne FLIR
05/2022 – present — *Vancouver, Canada*

- Building and maintaining several microservices to support a manufacturing automation system
- Designing and implementing new software features to increase manufacturing efficiency.
- Collaborating with the research team to build and deploy an AI-Driven software to enhance the manufacturing quality control.

Software Developer
Greenlight Innovation Corp.
09/2021 – 12/2021(Full time Coop), 01/2022 – 04/2022 (Part-time employee) — *Burnaby,Canada*

- Develop full-stack web application using Angular framework and ASP.NET Core.
- Build, maintain and expand RESTful Web APIs which do CRUD operations to SQL database.
- Design, Implement front end interface using HTML&CSS / Bootstrap.
- Collaborate with cross-functional teams to define and ship new features.

Research Assistant (full-time coop)
University of British Columbia
09/2019 – 09/2020 — *Vancouver, Canada*

- Develop Python scripts for data analysis and visualization.
- Maintain and expand Python program for Lab Instruments.
- Design and test experiment Instrument component with SolidWorks and Comsol.

EDUCATION

Bachelor of Applied Science - Computer Engineering
(Bachelor of Commerce - Minor Degree)
University of British Columbia
09/2016 – will graduate at 04/2022 — *Vancouver, Canada*

- Coop program: 4/4 terms completed (16months).

TECHNICAL PROJECTS

Hand Gesture Controlled Robot Pet (UBC APSC Faculty Awards) (09/2020 - 04/2021)

- Collaborate with Huawei and 4 engineering students; developed a hand gesture-controlled robot by using a hand gesture recognition machine learning module.
- Programmed a control software embedded in the machine learning module to control the movement of the robot.
- Established the communication between the Atlas 200DK (provided by Huawei) and a Raspberry pi to exchange data and execute command.
- Designed and 3D printed supportive structure and robot chassis.

Rental Tinder (09/2018 - 12/2018)

- Collaborated with 3 computer engineering students; established a cross platform (Android & IOS) mobile app; provides a safe and convenient way to build connection between landlords and tenants.
- Assessed difficulty of finding affordable housing for international student; Discovered potential market of a platform providing easier way of finding housing.
- Completed development of frontend user interface by using React Native.

Secure Door System (02/2018 - 04/2018)

- Designed a Raspberry Pi 3 based secure door system; connected a web app and allow users remote monitor, remote control doors.
- Built a door prototype with scale 1:10 by using Solid Work and 3D Printing.
- Partnered with two Computer Engineering students building user interface of web app by using HTML and Java Script; Integrated camera live streaming to web app by using PHP.

HONOR AWARDS

UBC APSC Faculty Awards (Capstone Project) (04/2021 - Present)

University of British Columbia

- Collaborate with Huawei and 4 engineering students; developed a hand gesture-controlled robot by using a hand gesture recognition machine learning module.

Work Learn International Undergraduate Research Awards (09/2020 - Present)

University of British Columbia

- Worked in a full-time research-intensive role under the direct supervision of Dr. Arman Bonakdarpour.

1st place in Vantage One Capstone Project Conference(04/2017 - Present)

University of British Columbia

- Led a 4 members team; build an Arduino Uno-based light tracking system, making a spotlight track a moving object in a specific area.

UBC Vantage One Entrance Award (09/2016 - Present)

University of British Columbia

- $10000 CAD scholarship

CERTIFICATES

Deep Learning Specialization (DeepLearning.AI) (09/2021 - Present)

see certificate

- 5 Courses Including: Neural Networks and Deep Learning; Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization; Structuring Machine Learning Project; Convolutional Neural Networks; Sequence Models.

Object-Oriented Data Structures in C++ (University of Illinois) (07/2021 - Present)

see certificate

Python Algorithms (TestDome) (04/2021 - Present)

see certificate