

LEMUEL PRANOTO

Computer Engineering Student



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Allow me to introduce myself. My name is Lemuel and I'm a proud Indonesian grateful to be able to experience a diverse culture. I am inspired and aspired to utilize my young-adult energy to land my first co-op/internship term and contribute with the best of my ability. I can't wait to get started.

PROJECTS & EXPERIENCES

Server-Based Home Security System

03/2019 - 04/2019

- Integrated software with hardware through front and back-end servers.
- Employed multithreading and locks to ensure that the system is responsive and that features are running synchronously.
- Developed a fully dynamic website that receives and sends data between the server and the Pi through GET and POST requests.

DE-Booth

01/2020 - 03/2020

- An FPGA-based "photo booth" station with IoT capabilities.
- Developed a hardware-accelerated algorithm to enhance graphics processing that writes pixel values to pixel buffer.
- Features include custom filtering, Twitter API usage, graphics acceleration, and custom data-transfer protocol.

Document Text Sentiment Analysis

09/2018

- Developed an algorithm that parses document text and requests Microsoft Azure's service to calculate the document sentiment score.
- Incorporated Jensen-Shannon Divergence method to calculate document similarity.

Web Designer & Developer

PT. SuryaTITIA Makmur

Jakarta, Indonesia

- Designed and developed a fully responsive company website.
- Functionality enhanced with JavaScript.

LEADERSHIP & VOLUNTEERING

Student Council Vice-President

Sekolah Pelita Harapan

08/2015 - 06/2016

- Represented the student body at school administration meetings and district events.
- Planned and organized school events and competitions.
- Worked with students in creating a better learning environment.

ACHIEVEMENTS & AWARDS



2x Outstanding Student Scholarship at Columbia College

02/2017, 02/2018 Vancouver, Canada



4x Honorable Mention at Columbia College (GPA > 3.7)

08/2016 - 04/2018 Vancouver, Canada



Multiple School District Championships in Both Football and Basketball Competitions

09/2012 - 05/2016 Jakarta, Indonesia

EDUCATION

B. A.Sc | Computer Engineering

University of British Columbia

2018 - Ongoing Vancouver, Canada

SKILLS

Programming Languages

Java

Python

C

C++

R

JavaScript

HTML

CSS

Assembly / Hardware Description Languages

Verilog

System Verilog

Arm

x86

y86

Notable Technologies / Tools

DE1-SoC (FPGA)

Arduino

Raspberry Pi

Microsoft AZURE

Intel Quartus

Altera ModelSim

GitHub

LaTeX

Debugging

Visual Studios

Apache

MongoDB

Node.js

Adobe Suite (Ps Pr Ae Lr)

LANGUAGES

English

Bahasa Indonesia

PASSIONS



Programming



Sports



Photography & Film Making



Snowboarding

LIFE PRINCIPLES

Integrity, Perseverance, Gratitude