

LEMUEL PRANOTO

Computer Engineering Student

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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.
- Successfully included features such as 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

08/2020 - 12/2020 Jakarta, Indonesia

- Designed and developed a fully responsive company website.
- Enhanced functionality and dynamism 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

02/2017, 02/2018 Vancouver, Canada

4x Honorable Mention (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