

LEMUEL PRANOTO

Computer Engineering Student

Internship: Available for 4 months starting **May 2021**

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PROJECTS & EXPERIENCES

Event-Manager App with RESTful APIs

03/2021

- Developed a serverless web-app that manages upcoming events.
- Hosted the web-app through Amazon Web Services (AWS) platform using React.js for the front-end and Node.js for the backend.
- Enhanced web-app functionality with Amazon S3 for storage service, Amazon Cognito User Pool for identity and access management (IAM), Amazon DynamoDB for database storage and Lambda functions through Amazon API Gateway's RESTful API calls to communicate with the database.
- Used Axios for HTTP (POST and GET) requests and communication with the API.

DE-Booth

01/2020 - 03/2020

- Built an FPGA-based "photo booth" station with IoT capabilities.
- Integrated a hardware-accelerated algorithm to enhance graphics processing that writes pixel values to pixel buffer.
- Successfully included features such as custom filtering, Twitter API autonomous tweet and an SSH data-transfer protocol with SCP for high-speed file transfer.

Smart Home Security System

03/2019 - 04/2019

- Created a home security system with 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 POST and GET requests.

Document Text Sentiment Analysis

09/2018

- Developed a program that parses document text and requests Microsoft Azure's service to calculate the document sentiment score.
- Incorporated Jensen-Shannon Divergence algorithm to calculate document similarity between two or more documents.

Web Designer & Developer

PT. SuryaTITIA Makmur

08/2020 - Ongoing 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.

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

AWS Serverless Architecture GitHub React.js

Node.js Microsoft AZURE MongoDB NoSQL

Debugging Visual Studios IntelliJ Arduino

Raspberry Pi Apache Altera ModelSim

Intel Quartus DE1 - SoC (FPGA) LaTeX

Adobe Suite (Ps Pr Ae Lr)

ACHIEVEMENTS & AWARDS

2x Outstanding Student Scholarship

02/2017, 02/2018 Vancouver, Canada

4x Honorable Mention (Term GPA > 3.7)

08/2016 - 04/2018 Vancouver, Canada

Multiple School District Championships in Football and Basketball Competitions

09/2012 - 05/2016 Jakarta, Indonesia

LANGUAGES

English, Bahasa Indonesia

PASSIONS

Programming Snowboarding

Photography & Film Making Sports

LIFE PRINCIPLES

Integrity, Perseverance, Gratitude