

# LEMUEL PRANOTO

## Computer Engineering Student

Seeking for a Full-Time job beginning August 2022

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## PROJECTS & EXPERIENCES

### Event-Manager App

03/2021 Personal Project

- Launched a serverless web-app that manages upcoming events hosted by the **AWS** platform using **React.js** for UI dynamism and **Node.js** for database manipulation.
- Integrated AWS serverless architecture consisting of Amazon S3 for storage, Amazon Cognito User Pool for identity and access management (IAM), Amazon DynamoDB for database and Lambda functions through Amazon API Gateway's **RESTful API** calls to communicate with the database.
- Incorporated **Axios** for **HTTP requests** and communication with the API.

### CHAT'R

09/2020 - 12/2020 Personal Project

- Created an online **discussion forum** where users can create/join a server room for live private/group chat.
- Maintained server side and host client-side app handling with **Node.js**, utilized **Express.js** API for endpoints, established **WebSocket** servers as a message broker alongside **MongoDB** for database storage.

### Land Monitor Mobile-App

KoroTU Technology

09/2021 - Ongoing Vancouver, Canada CAPSTONE Group Project

- Developing a hybrid **React Native** mobile-app that detects deforestation changes with a Land Use/Land Cover (LULC) classification model.
- Designed app UI using **Figma**, developed a fully functional user profile sign-in/sign-up feature, handled user-selected geographic coordinates for classified images retrieval over **HTTP requests** to a server hosted on **AWS**.
- Employed **Expo** for frontend app **CI/CD** in a fast-paced, agile environment.

### Software Engineer

SeaHawk Robotics

06/2021 - 08/2021 Vancouver, Canada Internship @ UBC's ELPC Program

- Designed and implemented an **FPV GUI** for a drone that is capable of launching and landing on water and land while carrying special payloads.
- Optimized live **video streams** by refining **latency** and **resolution** for multiple onboard cameras.
- Added **winch control** interface and modified existing **control firmware** to include depth feedback.

### Summer Analyst (Software Engineer)

PT. Pinnacle Persada Investama

04/2021 - 06/2021 Jakarta, Indonesia Internship

- Streamlined **Portfolio Management Summary** (PMS) database query time and established a new **server connection** for their new office location.
- Deployed an AWS **Lambda Function** GET request **REST API** endpoint that queries a **PostgreSQL** database and retrieve data based on the parameters set on the PMS mobile app.
- Engaged in PostgreSQL data manipulation with **SQL statements**.

### Web Designer & Developer

PT. SuryaTITIA Makmur

05/2019 - 08/2019 Jakarta, Indonesia Internship

- Designed and developed a fully responsive company **website**.
- Enhanced functionality and dynamism with **JavaScript** and **Bootstrap**.

## EDUCATION

B.A.Sc | Computer Engineering  
University of British Columbia

September, 2018 - May, 2022 Vancouver, Canada

## SKILLS

### Programming Languages

JavaScript TypeScript HTML CSS Java  
C++ C Python R Verilog ARM x86 y86

### Notable Technologies / Tools

Amazon Web Services (AWS) Microsoft AZURE  
Bootstrap Node.js React.js Express.js  
React Native MongoDB PostgreSQL Git  
Docker Postman OpenGL Figma Jira  
Adobe Suite (Ps Pr Ae Lr) Arduino SoC FPGA

## 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

## LEADERSHIP & VOLUNTEERING

Student Council Vice-President

Sekolah Pelita Harapan

08/2015 - 06/2016

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

## LANGUAGES

English, Bahasa Indonesia

## PASSIONS

Programming Snowboarding  
Photography & Film Making Sports

## LIFE PRINCIPLES

Integrity, Perseverance, Gratitude