LEMUEL PRANOTO

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Software Engineer

//lemuelpranoto
https://lemuelpranoto.com

SKILLS

Programming Languages
Notable Tools and Technologies

Java, Scala, JavaScript, TypeScript, HTML, CSS, C, C++, Python, R, Verilog

Amazon Web Services (AWS), Git, React Native, ReactJS, NodeJS, ExpressJS, MongoDB, Axios, Mockito, Postman, PostgreSQL, Bootstrap, Docker, IntelliJ, VS Code, Visual Studio, Figma, Jira, OpenGL, Arduino, Adobe Suite (*Ps Pr Ae Lr*)

WORK EXPERIENCE

Amazon.com, Inc.

August 2022 - April 2023

Vancouver, BC

Software Development Engineer

- Designed and developed a new high-traffic payment authorization authentication widget at retail checkout by writing a dynamic
 idempotency key retrieval logic code in Scala alongside fetching other important payment contract metadata from external
 PayStation entity to successfully onboard a new retail EBT payment method.
- Established a Java GET SPI as part of a legacy decoupled payment method (DPM) migration that requests payment contract
 information from external Acculynk PayStation service then returns corresponding data reliably in a high-traffic environment.
- Leveraged native AWS technologies to streamline a modular CI/CD workflow approach towards sprints and milestones while
 employing Amazon Ion and RDE stack to conduct rigorous unit/integration testing, ensuring that code packages and
 environments shipped to production are robust, maintainable and secure.
- Handled high severity, customer impacting tickets during oncall by performing root-cause analysis and deep-dive into logs and
 metrics, subsequently implementing applicable new metrics and alarms to monitor services in attempt to improve debugging
 productivity of fellow service-dependent up/downstream developers and process engineers alike.

SeaHawk Robotics June 2021 – August 2021

Software Engineer, ELPC Intern

Vancouver, BC

- Designed and implemented an FPV GUI for a drone capable to launch and land on water while carrying special payloads on
 Mission Planner GCS, further optimizing live video stream from four onboard camera sources by refining latency and resolution
 with GStreamer resulting in an improved stream quality resolution and a 40% reduction in pipeline latency.
- Constructed a winch control interface by modifying the existing control firmware script in **Python** to factor in depth feedback relayed from drone sensors when calculating winch rotation and depth of payload drop.

PT. Pinnacle Persada Investama

May 2020 - August 2020

Jakarta, Indonesia

Software Engineer, Intern

- Deployed an AWS Lambda Function GET request REST API endpoint that queries a PostgreSQL database by utilizing SQL statements to retrieve data based on the parameters set on the Portfolio Management Summary (PMS) mobile app.
- Streamlined a reduction in PMS database query time and established an in-house stock market API server for their new branch.

EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Applied Science, Computer Engineering with Co-op

2018-2022

Awards: Capstone UBC ECE Faculty Award Winner, 2x Outstanding Student Scholarship, 4x Honorable Mention (Term GPA > 3.7)

TECHNICAL PROJECTS

Land Monitor Mobile-App

September 2021 - April 2022

Vancouver, BC

KoroTU Technology (Capstone Project)

- Designed and developed a hybrid mobile-app that detects and informs users of deforestation changes using Land Use/Land Cover (LULC) classification algorithms, utilizing React Native to support cross-platform iOS and Android devices during frontend architectural app build, Figma to prototype the user interface design and Expo to build and deploy latest version iteratively.
- Architected map component utilizing Google Earth Engine API alongside Google Cloud Storage for image retrieval and
 processing, AWS for back-end server hosting the database, user authentication data, and search results caching; successfully
 deployed through the rigorous testing of REST API endpoints with Postman and Docker to ensure environment compatibility.

Event-Manager App March 2021

- Launched a serverless web-app that manages community events hosting as a social platform utilizing React.js for UI dynamism and Node.js for real-time database manipulation, alongside integrating the AWS architecture including Amazon S3 for hosting, Amazon Cognito User Pool for user management, DynamoDB for data storage and Lambda API Gateway RESTful API calls.
- Incorporated Axios to establish a promise API for HTTP (POST and GET) requests that communicates between the database and client, successfully handling response errors or updating asynchronous data received as part of the protocol.

CHAT'R September 2020 – December 2020

- Created and designed a synchronous and secure online discussion forum webpage in which users are able to create/join a server
 room that hosts a private/group chat, utilizing JavaScript libraries for dynamic functions and malicious attack prevention.
- Employed Node.js for handling server side and hosting client-side app, Express.js API for communication protocol endpoints,
 WebSocket servers as a message broker, alongside MongoDB for database storage.