Mochamad Adrian Prananda

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Summary of Qualifications:

- **Area of Expertise**: full-stack software engineering, core infrastructure, distributed systems, and API services
- **Programming Languages**: Python, Java, Ruby, JavaScript, TypeScript, Go, C/C++, and MatLab
- **Web Frameworks and Tools**: Ruby on Rails, React-Redux, Electron, EmberJS, Flask, and Sinatra
- **Scientific and Processing Tools:** Scipy, Numpy, OpenCV, Pandas, Airflow, Celery, and Scikit-learn
- **Test Frameworks and Tools**: Rspec, Py.test, Mocha, Enzyme, JUnit, and Jest
- **Data Management Tools**: PostgreSQL, MariaDB, MongoDB, Apache Kafka, Couchbase, and Redis

Related Experience:

Lead Software Engineer, **LivePerson**, Seattle, WA January 2019 – Present

- Acts as the lead engineer for the Java-based messaging platform that serves 70 % of the overall customer traffic
- Stabilizes the messaging platforms by improving service metrics and deployment strategy across three core services
- Collaborates across teams to implement Node.JS-based auto messaging features, increases sales by 20 % in 2019

Senior Software Engineer, **4C Insights**, Seattle, WA September 2017 – January 2019

- Serves highly active advertising statistics from various social platforms for enterprise users such as Target and Ebay
- Transforms the legacy Ember.js-breeze.js to the new React-Redux frontend, increases responsiveness by 60 %
- Engineers the backend system to serve terabytes of ad objects and statistics using Flask, MongoDB, and Celery

Software Engineer, MicaSense (a Parrot Company), Seattle, WA February 2016 – September 2017

- Developed a full-stack web application to serve millions of multispectral images to farmers using Ruby on Rails
- Constructed a desktop uploader supporting up to 50,000 files per upload session using Electron and React-Redux
- Migrated a legacy Python distributed system (RabbitMQ) to a containerized system (AWS ECS and Airflow)
- Engineered the back-end infrastructure with Ansible and Terraform to easily scale up to 500 AWS EC2 instances

Lead Teaching Assistant, **UW EE/CS&E**, Seattle, WA September 2015 – January 2016

- Led a team of researchers to develop a curriculum for the core embedded subsystems class at the UW (CSE 474)
- Assisted 60 students with the fundamentals of embedded Linux on Sitara ARM Cortex-A8 processor
- Developed, administered, and corrected tests, labs, and homework in a timely manner

Software Engineer, **Dept. of Radiation Oncology**, **UW Medicine**, Seattle, WA January 2013 – January 2014

- Worked on a project called smARtsKIN to develop a camera guidance system for patient positioning
- Utilized MATLAB and C++ for data analysis and to improve the software interface of the camera guidance system
- Created a simple 3D model of a linear accelerator with MATLAB for patient positioning simulation

Other Experience:

First Place Winner, **AngelHack – Capital One DevExchange Hackathon**, Seattle, WA March 2018

- Developed a budget splitting iOS application (with Swift) geared towards college students and young adults
- Competed with 100+ developers all over Seattle to complete a 24-hour-window hackathon challenge

Education:

University of Washington, Seattle, WA | GPA 3.73/4.00 (Cum Laude) January 2016

- B.S. in Electrical and Computer Engineering, minor in Applied and Theoretical Mathematics
- **Activities**: UW EcoCar, UW Awaaz, Salsa Club, The Wildlife Society