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ERIEL MARIMON

IMPORTANT

Please visit the dynamic portfolio I created which allows for easier visualization and filtering of my experience. There you can see all of my projects, filter by languages and other parts of the stack, as well as visualize some of the work I have done.

https://dibusan.github.io/portfolio

SKILLS

Full stack developer (Mobile and Web) comfortable with driving projects end to end in collaboration with, or leading small teams. I am agnostic to technology requirements, but with preferences in Python, Kotlin, Rails, and Flutter. I am also experienced in data driven development: Data analysis (SQL, big data), Hypothesizing and A/B Testing.

Most recently used skills and topics touched:

- **User Engagement** strategizing (Mobile app notification content and quality);
- **Big Data analysis** using Presto engine: Analyze data to find trends, hypothesize and implement A/B tests to find the most effective UI, Content designs, or CPU Processing optimizations;
- Scalable **Web Scraping** and **Web Automation**, through a series of strategies and tools I have developed myself to grab data from modern dynamic websites that intentionally design their sites to be difficult to scrape;
- Entry level **Robotics (ROS)**. I have experience working with Arduino, esp8266 wifi module, raspberryPis and a series of analog sensors.

EXPERIENCE

Juke Audio – *Full Stack developer*

May 2023 – Present

www.jukeaudio.com

Implement a full redesign and re-architecture of a mobile and a web application for a smart home audio system (IoT).

- Setup new projects and continuous integration pipelines using Github Actions
- Manage releases to Firebase, PlayStore (Android) and App Store (Apple)
- Worked with UX designer to create a new design of the app from scratch
- Designed the backend architecture to support a user facing app which needs offline support

- Implemented backend Rest API, running in a raspberry pi, using Django. Supports authentication, multi user experience, smart audio control
- Implemented full UI design produced by the designer, and worked to refine it over time in order to satisfy user feedback. This Front End app was delivered with Flutter for its multi platform capabilities.

Surge (Slingshot), Remote — *Software Engineer*

June 2022 – May 2023

- **Lab Infrastructure team**
  - Build multiplataform app (Android, iOS, Web) using Flutter for space mapping, satellites and debris
  - Building APIs (For REST and Web Sockets) using Kotlin to support a 3D space mapping web app
  - Build AWS lambda functions for a state machine handling User Onboarding process
  - Build clients for Python and typescript to integrate all of the org code with Datadog and Open Telemetry for collection of data for all processes to monitor stability and identify areas of improvement
- **Data Platform team**
  - Using Python, Kotlin and Typescript
  - Build data pipelines for periodic Ingestion and Curation
  - Built and published, to internal pypi repositories, a client library (*python-observability-client*) to facilitate collecting Observability Metrics in python, leveraging OTEL and Datadog libraries
  - Built APIs to allow 3rd party retrievals of the data we ingest and curate (some examples: Orekit, Space Weather, Earth Orientation)

Facebook (Meta), Menlo Park California — *Software Engineer*

June 2020 – June 2022

- **Notifications team (1 year 2 months)** working on user acquisition to increase Facebook's top level metrics that directly affect stock price: DAU and MAU (Daily and Monthly active users)
  - Day to day involved data analysis of notifications quality, A/B Experimentation, UI and BackEnd development using **React, Python and Hacklang**
- **Robotics team (current)** working on data processing from sensor streams helping machines navigate complex environments.
  - Python (Internal Framework)
    - Write highly scalable services to process streams of data from live sensors. Optimize to process multiple streams at once with multithreading and concurrency.
    - Write standalone scripts to manipulate the Linux file system.

Lowes, Seattle WA (SURGE IT) — *Full Stack Developer: Java + React*

Feb 2019 – May 2020:

- Started as a Senior Back-End dev and was promoted to team tech lead after 4 months where I organized team roadmapping and mentored other engs focused on enhancing their coding output and overall delivery quality.

- Delivered REST APIs to support an improved user experience of Lowes Store search pages in mobile devices. **Spring Framework, Java, React**
- My Back end APIs and UI implementations improved Store Page loading time by 60% and improved Product Page Rankings on Google Search.
- Mentored 3 QA testers to learn Java Back End development and take over my work after I left.

Transunion — *Python Developer (+ Vuejs)*

Aug 2018 – Feb 2019:

- Built a Web based Dashboard with VueJS and a Python(Django) backend.
- The Python backend focused on starting up and managing standalone scripts.
- Created python scripts ran periodically with cron jobs to monitor progress of other running services and publish progress to RabbitMQ topics.

Norwegian Cruise Line — *Java Developer (+ Vuejs)*

May 2018 – Jul 2018:

- Built a CMS UI that would allow internal content creators to update offers in ncl.com, the main website of the company. This included the upload of images, text and videos about promotions, holiday deals, pricing changes, News for individual cruise ships, among other things.
- Migrated their file server to Filestore, a Google Cloud Platform service.

SATO Global Solutions — *Java BackEnd Developer*

February 2017 – May 2018:

- Developed IoT solutions for Retail Stores asset tracking. **Java, Spring Framework, Python, Docker, RFID Readers and Antennas**
- Built REST APIs to support tracking of retail items as they moved inside Malls and large stores.
- This helped with loss prevention and better customer service.
- Wrote features for Native Android applications using Java.
- Wrote Python client and server scripts to communicate through RabbitMQ. This service had a multi-consumer backend processing millions of requests per second from status reports of hundreds of RFID tags moving around in retail stores.

Quick summary of other short term contracts
- **SR Technologies**. Helped develop Flight Controller UI for drones. **Golang, Angular JS**

Extended List of Skills and Technologies
- **Python** (Django, Flask): Built UI dashboards and Web Scrapers at "Transunion", "71 lbs" and "Test Case Central"
- **Ruby on Rails**: Built REST APIs at "71 lbs". Multiple full stack or REST api personal projects.
- **Java** (Spring Framework): Used to build Microservices at "Lowes" and "SATO Global Solutions".
- **GoLang**: Built dashboard and back end processes for SR Technologies Flight Controller UIs.
- **Databases**: MongoDB, Postgresql, MySQL, SQLite, Firestore
- **Cloud**: GCP, Google Cloud Functions, Firestore, AWS
- **Containers**: Docker, Docker Swarm
- **Mobile**: Android (Native and Flutter), IOs(Flutter)

- **Front End**: VueJS, Angular 2
- **CD/CI**: Jenkins, Git, Google Cloud integrations.