

## Summary

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Software Engineer specializing in data-centered systems and optimization. Skilled in building high-performance backend-systems, data pipelines, and API documentation. Proficient with GCP, SQL, NodeJS(TS), Python, and Docker. Adept at identifying business challenges, innovating solutions through rapid prototyping, evaluating success, then scaling to production. Committed to getting things done under pressure.

## Skills *(Years of experience listed after each item.)*

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Languages: Python 5, Linux/Unix 4, C++ 2, Java 2, R 2, JavaScript 2, Bash 2 , NodeJS 1

Frameworks: Tkinter 1, Flask 1 , React 0.5,

Databases: SQL 2, AWS S3 1, MySQL 1, PostgreSQL 1, Firestore 1, BigQuery 1

Other: Git 5, Data Visualization 2, GCP 2, Agile 2, Data Engineering 1.5, Distributed Systems 1.5, Geospatial 1, CI/CD Pipelines 1, Firebase 1

## Education

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BSc in Data Analytics, BSc in Business Economics, Graduation: 05/2022

Chapman University, Orange, CA

- GPA: 3.85 / 4.00 (Magna cum laude)
- Graduated #1 in Data Science
- Economics Geospatial and Machine Learning lab member, analyzing risks in conflict-prone areas.

## Experience

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[Wiliot](#) - Remote, Software Engineer, 11/2022 - present

- Wiliot adds intelligence to every single thing using Wiliot Pixels, tiny IOT devices, that allow for asset tracking and monitoring to make a cleaner, more efficient world.
- Built NodeJS backend for location tracking application for 2nd largest customer meeting, utilizing load balancers, cloud functions, and stream monitoring to handle packet data. Implemented CI/CD.
  - Processed and filtered a single packet in < 2s, allowing for near-real-time tracking of assets.
- Created Auto-Provision script and guide to build full Data Warehouse in GCP for new customers to reduce time to using real data. Has been tested with 100k assets and can go higher sale. Is being rolled out to partners.
  - Using SQL parallelization & Python batching to improve record comparison times from 3s/record to 0.03s/record.
  - Used GCP PubSub and GCP Cloud Functions to ingest data.
- Designed and built a containerized parallelization tool on Google Cloud Run Jobs, enabling 200 concurrent simulations, reducing run-time from 16 hours to 1.5 hours, and provided a modular function with adaptable parameters for enhanced flexibility.

[Toyota Racing Development](#) - Costa Mesa, CA, Software Engineering Intern, 06/2022 - 08/2022

- Built full-stack Python application to improve speed, accuracy, and reliability of legacy pressure calibration systems.
- Decreased technician time by 50% and reduced sensor reading review time of senior engineers by 75%, resulting in estimated \$20,000 yearly cost savings.