Ryan G. Tjakrakartadinata

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Location: San Francisco Bay Area

LinkedIn: https://www.linkedin.com/in/ryantjakrak

GitHub: https://github.com/tjakrak

Technical Skills

- Programming Languages: Java, C, SQL, HTML, Python, ARM, Go, Racket, ReactJS, and SwiftUI
- Software Skills: DBMS, Git, IntelliJ IDEA, JIRA, Redshift, Salesforce, Unix type environment, and Vim

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Work Experience

Headway – Milpitas, California   Jun 2022 – Aug 2022
Software Engineer Intern

- Wrote MSSQL and Python script to perform ETL on +21 million data
- Created an application that can predict the processing time of each tool in the manufacturing floor based on the queue, batch sizes, operation and the tool

Calix – San Jose, California   Jun 2021 – Sep 2021
Software Engineer Intern

- Extended an existing Python script to check backward compatibilities between releases and improved its running time by removing a redundant operation
- Implemented infrastructure improvements by resolving JIRA tickets arising from customers' request
- Performed standard UNIX operations in a virtual machine environment

Livongo – Mountain View, California   Aug 2020 – Nov 2020
Data Ops Analyst Intern

- Managed a dashboard creation for client-facing teams through extraction of data from Redshift database using SQL, enabling better flow and transmission of client information
- Performed data standardization of suffixes and prefixes for +20,000 user names utilizing Regex
- Led coordination with 2 client-facing teams to consolidate all key client data & information in a central dataset, eliminating the need for manual inquiries on a client-by-client basis

Qualitest @Google – Mountain View, California   June 2017 – Feb 2020
Google Search Analyst

- Trained machine learning model through data labeling on robust data sets
- Queried and analyzed dataset from Google internal Database to support the launch of a new feature
- Identified bugs from Google Search products and collaborated with relevant engineers to resolve the bugs
- Surfaced data-driven insights to the stakeholders for the launch of new Google Search feature in Indonesia

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Projects

- **Number-Tool Language** – Implement a command line program that can interpret simple ntlang expressions for working with different number bases and bit widths.
  Key skills: C, Struct, Bit Shifting
- **Reliable File Transfer** – Implement a reliable data transfer protocol between multiple hosts.
  Key skills: Java, TCP, Checksum, Socket, Go-Back-N, Stop-and-Wait, Thread
- **Cloud Storage Service** – Designed a cloud storage service with replicated backend servers and a command line client application.
  Key skills: C, Go, Socket, Sha1sum, Threadpool, Server, Client

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Education

University of San Francisco   Aug 2020 – Dec 2022
Master of Science in Computer Science

Oklahoma State University   Aug 2011 – Dec 2015
Bachelor of Science in Industrial Engineering and Management