CHRISTOPHER PARTIMANN
MACHINE LEARNING ENGINEER

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Ω 🌐 https://tophurkey.github.io/Data_Projects/   in cjpartimann

SUMMARY

Data-Driven Engineer passionate about AI technologies working as a Machine Learning Engineer for Hitachi Solutions in San Diego, California. Currently leading Generative AI efforts in the AI and Data Science group utilizing the latest methods and tools in Databricks and Azure to reinvent our client's businesses. Comfortable working with complex data environments both in and out of the cloud with skills in organizing, orchestrating, and analyzing diverse data flows for driving decisions at a business level. Strong focus on teaching and developing coworkers toolboxes as much as possible while also expanding my own through strong collaboration. Spend my time outside work volunteering and tinkering with microcontrollers, raspberry Pi clusters, and scripts/programs to automate my life or find patterns in the wild. Currently dreaming, designing, and delivering innovative and productive Generative AI and Data Science solutions for customers in every field.

SKILLS

LANGUAGES	CLOUD	DATABASES	STATISTICS
Python, Scala	Docker, Kubernetes	Vector, Graph	Hypothesis (A/B) Testing
R, Julia	Azure, Databricks	ANSI-SQL, PG-SQL	PCA, DOE
Java, C#	Bicep, Terraform	Cosmos, Delta	Frequentist/Bayesian Analyses
Powershell, Bash	Networking, Architecture	Cassandra, Mongo	Regression, SVM, K-Means

EXPERIENCE

Software Engineering Experience:

Senior Machine Learning Engineer| Hitachi Solutions| San Diego, CA| Apr 2024 - Present

Data Science and AI Group

Key Customer Experiences:

- Construction, Insurance, Medical, Utilities, Defense, Hedge Funds

Responsibilities:

- Lead and architect solutions for multiple teams
- Perform Exploratory Data Analysis and maintain Data Engineering Pipelines
- Develop models, serving API's, and AI Architecture
- Create and present technical presentations
- Conduct client training and solution discussions
- Represent technical achievements at global conferences
- Lead Generative AI solution development and knowledge transfers

Senior Big Data Engineer| Hitachi Solutions| San Diego, CA| Apr 2022 – Apr 2024

Data Science and AI Group

- Provide cloud solutions for data science, AI, and Machine Learning projects across various industries
- Utilize the latest Databricks and Microsoft Azure resources
- Focus on data understanding, cleaning, and integration into cutting-edge solutions
- Collaborate with a team of talented engineers

Data Specialist | ASML |San Diego, CA | Oct 2021 – Apr 2022

- Propose and configure data management solutions for analyzing utilities and infrastructure performance
- Technical Asset Manager for VM Clusters, Site Data Governance Lead, and Data Analytics Lead

DATA PROJECTS:

Critical System Recovery

- Performed complete analysis of historical data for business-critical systems for RCA of 50% utilities downtime
- Using multiple data analysis techniques identified control system deficits and isolated issue leading to 95% uptime
- Providing data analysis to drive permanent automated solution for 99.85% uptime of all critical systems

Automate Dashboards for Internal Metrics Reporting

- Created ETL pipeline to automate data acquisition from Service Ticket System including Text-to-Metric Analysis
- Automated Dashboards and PowerPoints with Data and present to Upper Management Weekly

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Medical Device Careers:

Senior Process Development Engineer | Dexcom |San Diego, CA | Dec 2020 - Present
- Discover ways to acquire and aggregate data from constantly changing sources during development.
- Create dashboards based on Executive Management feedback and Team needs for Performance Reports.

DATA PROJECT:

Dashboard for Automation Line Performance
- Prototyped Python Plotly Dashboard with Docker for visualizing line status and performance metrics
- Migrated data visualizations to Tableau and created custom graph components to meet management needs.
- Guiding architecture of SQL databases for use in future live data Dashboarding on launch.

Process Development Engineer | Illumina | San Diego, CA | Nov 2018 – Dec 2020
- Coded a C# and SQL based SW for monitoring live production data on custom equipment for MFG Floor.
- Created installable SW with GUI to help non-coding engineers analyze large and complex FMEA documents.

DATA PROJECT:

Multi-Source Data Aggregation
- Rewrote code from R to Python and added integration for accessing JIRA, MSSQL, Network Folders, and Custom SW.
- Trained the entire process engineering team to use python to run scripts for personal use.

Design Quality Engineer | Medtronic | San Jose, CA | January 2017 - Nov 2018
- Work with teams

DATA PROJECT:

MAUDE Database Analysis
- Utilized PANDAS and DASK to aggregate and filter entire MAUDE FDA Database for analysis.
- Automated the data acquisition and analysis to monitor risk over project lifetime.

Volunteer Work:

Instructor and Chair | ASQ | San Diego, CA | Aug 2019 – Present
- Teach refresher courses and give presentations on Statistics for local Engineers.

Research Assistant | University of Memphis | Memphis, TN | Aug 2014 – Aug 2016
- Created an automated program for assessing and creating data visualizations on novel protein assays.

Co-Founder/Manager |UC Merced SATAL | Merced, CA | Sep 2009 – Aug 2012
- Created program for collecting and assessing feedback to improve pedagogical methods.

EDUCATION

University of California, Merced | 2012

B.S. Bioengineering

University of Memphis & University of Tennessee Health Science Center | 2016

M.S. Biomedical Engineering