

BRUCE SZUDERA WIENAND

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Experience

Ternary

DECEMBER 2020 - PRESENT

Engineering Manager

- Led the engineering team responsible for server-side applications; data storage, processing and serving; and infrastructure
- Managed and negotiated stakeholder expectations regarding scope, priority, tradeoffs and timelines
- Introduced processes to maximize communication, collaboration and velocity yet remaining lightweight time commitments
- Supported career goals by working with team members to develop growth plans and calibrate at regular cadences
- Built hiring pipeline from screening resumes and coordinating interviews to presenting offers and onboarding hires
- Provided technical guidance and oversight while allowing engineers room to learn for themselves, grow and make mistakes

Founding Engineer

- Translated high-level feature ideas into actionable implementation strategies and executed from inception to completion
- Designed and built ETL pipelines utilizing Cloud Scheduler, Cloud Run, BigQuery and Golang processing 200TB+ daily
- Ensured reliability of services by designing them to be fault tolerant while also leveraging monitoring and alerting
- Rearchitected storage and serving layers reducing p99 query latency by 90% ensuring high quality customer experience
- Contributed support to community around the open source application Cube and was recognized as a community Hero

LiveRamp

AUGUST 2018-NOVEMBER 2020

Data Engineer

- Led cost optimization initiative to decrease my team's cloud spend by over \$1,000,000 per year
- Optimized spend by tuning expensive apps, increasing utilization of costly infrastructure and educating teammates
- Assisted in rearchitecture of Hadoop MapReduce-based pipeline to Apache Spark to modernize tech stack
- Increased reliability of pipeline by improving monitoring and alerting for critical components using Datadog
- Maintained health of twenty apps across five Hadoop clusters running up to 1,000 nodes and 10,000 jobs per day
- Migrated on-prem VM-based big data workloads and high availability servers to the cloud using Docker and Kubernetes
- Educated my teammates by leading periodic tech deep dives and organizing overviews of adjacent teams' responsibilities
- Introduced and advocated for various Scrum and engineering best practices to improve health and efficiency of team

Full Stack Engineer

- Developed a cloud-native web app using React and Node to allow customers to manage segments and compute stats
- Decreased page load time by 90% by reusing slow-loading components to provide the best customer experience possible

Projects

Tenbounce

NOVEMBER 2016-DECEMBER 2021

- Designed and developed a web application which allows trampoline coaches to easily track their athletes' progress
- Implemented an API using Python Flask framework to control, access and display data stored in a PostgreSQL database
- Combined backend with JavaScript front end to create a dynamic, responsive and easy-to-use user interface
- Leveraged Google Charts API to display data to users in a convenient and easily interpreted manner
- Recruited beta testers from Facebook group to gather interesting use cases and suggestions for improvement
- Programmed regression and clustering algorithms to infer important information about user-submitted data points
- Enumerated and administered multiple UI/UX tests to uncover usability and experience flaws and improve thereupon
- Modified and enhanced functionality as appropriate to improve usability and user experience
- Marketed software to coaching peers and increase usage to over three hundred athletes and thirteen thousand data points

Education

The University of Michigan, Ann Arbor

APRIL 2017

Bachelors of Science in Computer Science

GPA: 3.92/4.0

Bachelors of Science in Pure Mathematics

High Honors

Minor in Linguistics, EECS Scholar

Coursework: Data Structures and Algorithms, Web Databases and Information Systems, Machine Learning, Artificial Intelligence, Computer Security, Linear Algebra, Real and Complex Analysis, Combinatorics and Graph Theory, Mathematics of Finance, Computational Linguistics

Skillset

Google Cloud Platform, BigQuery, Dataproc, GKE, Docker, Kubernetes, MySQL, PostgreSQL, Terraform, Datadog, Hadoop, MapReduce, Spark, Go, Java, Scala, Python, Flask, JavaScript, Node, React, HTML, CSS, Bootstrap, Git, L^AT_EX, Linux, Spanish, FinOps