Douglas O. Issichopoulos

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EXPERIENCE

Senior Software Engineer, **Fortinet** — Sunnyvale, CA   08/2024 – Present
- Designed and deployed a containerized, cloud-native data ingestion and monitoring pipeline for high-volume timeseries network performance data on AWS EKS: architected Kafka-based streaming pipelines to reliably ingest and distribute telemetry data to self-hosted TimescaleDB, deployed continuous seasonality-based anomaly detection on this telemetry data, exposed queryable API endpoints via FastAPI, and ensured real-time observability and data quality through Grafana dashboards.

Software Engineer, **Lacework [Acquired by Fortinet]** — Mountain View, CA   03/2024 – 07/2024
- Optimized the batch + realtime security threat alerting pipeline for the Lacework Edge product using unsupervised machine learning anomaly detection (Kubernetes microservices architecture built with Java, Go, Python, AWS EKS & DynamoDB, and Snowflake)
- Developed an LLM-based anomaly interpretation system using a Retrieval-Augmented Generation (RAG) methodology

Senior Software Engineer, **Humanyze** — Palo Alto, CA   07/2018 – 12/2022
- Full stack web development of our Executive Insights solution using React.js, Django, PostgreSQL, and AWS
- In a team of two, developed a new ETL cloud batch-processing pipeline using AWS EMR and S3 with PySpark, achieving a 100x reduction in processing time and $10k/month cost savings
- Created a cloud benchmarking system to summarize the TBs of timeseries data
- Co-invented the Humanyze Organizational Health Score™ system, comprised of approximately 20 proprietary metrics (patent pending, U.S. Application Number 17/189,919)
- Performed and automated custom analyses for 100+ presentations to our many customers using Python (pandas, scipy, networkx), PostgreSQL, and advanced graph visualization techniques

Previous Employment (not High Tech) — Multiple Locations   02/2012 – 05/2018

EDUCATION

Master of Computer Science, **University of Illinois Urbana-Champaign** — Remote   01/2023 – 12/2023
- Achieved a 4.0 GPA, focusing on distributed systems and machine learning
- Developed a novel method to reduce inference latency when sharing deep neural network (DNN) tensors between AWS Lambda serverless functions (pdf and blog post)
- Developed a computer vision parking spot detector prototype service with a working frontend, backend, and networking for three cameras on a to-scale model (demo video and blog post)

B.S., Mathematics, **Stanford University** — Stanford, CA   09/2008 – 12/2012

PERSONAL

Personal software blog: dougissi.com (React)
Receipt Splitter: PartySplit.com (React + TypeScript), perfectly split a bill/receipt/check using AI
Wordle Clone: WordleReplay.com (React), play *any* published Wordle, 1,000+ daily users
Book: *Called Higher*, a Christian faith testimony published on July 15, 2019
Languages: English (Native), Spanish (Adv.), Portuguese (Adv.), French (Inter.)