

Douglas O. Issichopoulos

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EXPERIENCE

Software Engineer, **Fortinet** — Sunnyvale, CA

08/2024 – Present

- Designed and implemented a containerized monitoring system of FortiSASE timeseries network performance data using AWS EKS, which included services to continuously fetch the data, store the data in self-hosted Timescale DB instances, expose the data via FastAPI server endpoints, and monitor the system via self-hosted Grafana dashboards.

Software Engineer, **Lacework [Acquired by Fortinet]** — Mountain View, CA

03/2024 – 07/2024

- Contributed to the launch of the [Lacework Edge](#) security product by optimizing our security threat alerting pipeline using 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

Computer Science Master's Student, **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](#))

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

- Residential real estate broker assistant at Menlo Atherton Realty 02/2018 – 05/2018
- Server at several fine-dining restaurants, most notably [Husk Nashville](#) 03/2016 – 09/2017
- [Anti-sex-trafficking](#) and [book publishing](#) for renowned evangelical pastor [Francis Chan](#) 03/2014 – 02/2016
- Launched social enterprise [Huli Huli Hawaiian Grill](#) in San Francisco with three-person team 09/2014 – 03/2015
- Intern for Cardinal Life Christian Fellowship at Stanford 01/2013 – 06/2014
- Partnered with fellow Stanford student to start [Sports & Scholars](#) tutoring company 02/2012 – 12/2012

EDUCATION

Master of Computer Science, **University of Illinois Urbana-Champaign** — Remote

01/2023 – 12/2023

B.S., Mathematics, **Stanford University** — Stanford, CA

09/2008 – 12/2012

PERSONAL

Personal software blog: dougissi.com (React)

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.)