

Douglas O. Issichopoulos

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PROFESSIONAL EXPERIENCE

- Software Engineer, **Lacework** — Mountain View, CA 03/2024 – Present
- R&D of ML anomaly detection of security threats for the launch of our new [Lacework Edge](#) product (Kubernetes microservices architecture using Java, Go, Python, and Snowflake)
 - Developed prototype of LLM-based anomaly detection via a Retrieval-Augmented Generation (RAG) methodology
- Senior Software Engineer, **Humanyze** — Palo Alto, CA 03/2022 – 12/2022
- Full-stack web development of our [Executive Insights](#) solution using React.js, Django, PostgreSQL, and AWS
- Data Scientist, **Humanyze** — Palo Alto, CA 03/2021 – 02/2022
- Transitioned our single-server Pandas/PostgreSQL ETL data pipeline to a cloud batch-processing system using AWS EMR and S3 with PySpark, saving tens of thousands of dollars and reducing processing time from weeks to hours
 - Afterward developed a benchmarking system to summarize the TBs of timeseries data outputs
- Senior Data Analyst, **Humanyze** — Palo Alto, CA 03/2020 – 02/2021
- Co-invented the [Humanyze Organizational Health Score™](#) system, comprised of approximately 20 proprietary metrics (patent pending, U.S. Application Number [17/189,919](#))
 - Later optimized this Python system to perform calculations more than 50% faster and with an output format compatible with PowerBI
- Data Analyst, **Humanyze** — Palo Alto, CA 07/2018 – 02/2020
- Performed and automated custom analyses for 100+ presentations to our many customers using Python, PostgreSQL, and advanced graph algorithms for networks with thousands of nodes
- 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
- 4.0 GPA with focus on distributed systems (cloud infrastructure) and machine learning
 - Capstone research paper: novel method to reduce inference latency when sharing deep neural network tensors between AWS Lambda serverless functions ([pdf](#) and [blog post](#))
 - Best project: computer vision parking spot detector prototype ([demo video](#) and [blog post](#))
- B.S., Mathematics, **Stanford University** — Stanford, CA 09/2008 – 12/2012

PERSONAL

Personal software blog: dougissi.com, written in React

Wordle Clone: [WordleReplay.com](#), play any published Wordle (not just today's), [1000+ daily users](#)

Book: [Called Higher](#), a Christian faith testimony published on July 15, 2019

Languages: Spanish (Adv.), Portuguese (Adv.), French (Inter.), Greek (Basic)

Interests: hiking, CrossFit, cooking, language learning, Christian service, soccer, surfing