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 events for the launch of our new Lacework Edge product (Kubernetes microservices architecture using Java, Go, Python, and Snowflake)
- Developed prototype of using Retrieval-Augment Generation (RAG) methodology to leverage LLMs in anomaly detection

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