Douglas O. Issichopoulos

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EXPERIENCE

Software Engineer, **Lacework** — Mountain View, CA   03/2024 – Present
- Optimized security threat alerting pipeline using machine learning anomaly detection within a Kubernetes microservices architecture (Java, Go, Python, AWS EKS & DynamoDB, Snowflake)
- Developed prototype of an LLM-based anomaly detection system using 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 with focus on distributed systems (cloud infrastructure) and machine learning
- Conducted capstone research on reducing inference latency for deep neural networks in AWS Lambda environments (pdf and blog post)
- Developed an IoT computer vision parking spot detector prototype using edge computing (demo video and blog post)

Senior Software Engineer, **Humanyze** — Palo Alto, CA   03/2022 – 12/2022
- Designed and developed the Executive Insights solution using React.js and Django
- Led backend development for application API systems, enhancing performance and scalability

Data Scientist, **Humanyze** — Palo Alto, CA   03/2021 – 02/2022
- 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 benchmarking system to summarize TBs of timeseries data, optimizing data handling and analysis

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)
- Optimized Python-based calculations, enhancing system performance by over 50%

Data Analyst, **Humanyze** — Palo Alto, CA   07/2018 – 02/2020
- 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, written in React
Wordle Clone: WordleReplay.com, play any published Wordle (not just today's), 1,000+ daily users
Languages: English (Native), Spanish (Adv.), Portuguese (Adv.), French (Inter.)
Interests: hiking, CrossFit, cooking, language learning, Christian service, soccer, surfing