# Douglas O. Issichopoulos

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## EXPERIENCE

Software Engineer, **Lacework** — Mountain View, CA     03/2024 – Present
- Helped launch 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 prototype of an LLM-based anomaly detection system using a Retrieval-Augmented Generation (RAG) methodology

Computer Science Master's Student, **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: novel method to reduce inference latency when sharing deep neural network (DNN) tensors between AWS Lambda serverless functions (pdf and blog post)
- Best project: IoT computer vision parking spot detector prototype (demo video and blog post)

Senior Software Engineer, **Humanyze** — Palo Alto, CA     03/2022 – 12/2022
- Full stack web development of our Executive Insights solution using React.js and Django

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, saving more than $10k/month and reducing processing time by 100x
- Later 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

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
**Book**: *Called Higher*, a Christian faith testimony published on July 15, 2019
**Languages**: English (Native), Spanish (Adv.), Portuguese (Adv.), French (Inter.)
**Interests**: hiking, CrossFit, cooking, language learning, Christian service, soccer, surfing