

# ISAAC LEHMANN

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## Senior Full Stack Engineer | System Architecture & Performance

A results-driven software engineer with a first-principles approach to problem-solving and a passion for turning complexity into simplicity. An empathetic and transparent communicator who thrives in collaborative, high-performance environments. Proven ability to take full ownership of projects, from architecting scalable systems to optimizing performance. A dedicated mentor focused on fostering team growth and shared success.

## KEY ACHIEVEMENTS

- Engineered an automation tool that reduced a full-day manual reporting process to under 15 minutes, eliminating a critical dependency on the Data Science team
- Boosted backend data retrieval performance by 10x through strategic SQL query optimization and the implementation of materialized views
- Resolved a critical performance bottleneck in a data-intensive tool by re-architecting a Snowflake SQL query, reducing execution time from over 10 minutes (with timeouts) to just 3 minutes

## WORK EXPERIENCE

### Biocatch

Senior Software Engineer | July 2023 - present

A global leader in behavioral biometric intelligence, acquired by Permira in 2024

- Resolved a critical performance bottleneck by re-architecting a Snowflake query; identified unique join keys and optimized the query plan to reduce execution time from 10+ minutes with timeouts to under 3 minutes
- Architected and led the development of a company-wide session analysis tool, building it as a core module within the main backend
- Led a frontend modernization initiative to improve developer velocity, migrating to Vite to accelerate build times and implementing a microfrontend architecture with a standardized Storybook design system
- Ensured high availability and streamlined deployments by managing Kubernetes clusters across production, staging, and dev environments using ArgoCD
- Mentored junior developers through regular code reviews and technical guidance, improving team code quality and fostering professional growth

### Noname Security

Senior Fullstack Engineer | July 2021 - July 2023

A high-growth API security startup, acquired by Akamai in 2023

- Contributed to a full-stack optimization effort that achieved a 10x acceleration in data retrieval (SQL, materialized views), directly addressing performance-heavy challenges in a high-load system
- Dramatically increased CI/CD efficiency and reduced developer wait time by implementing parallel testing and optimizing Docker builds
- Delivered fundamental features and resolved intricate bugs for the flagship client-facing security dashboard, enabling users to visualize their API inventory and respond to threats
- Ensured release stability and quality by managing deployments and running automated E2E smoke tests on an AWS EC2 infrastructure

## Qualcomm

*Software Engineer | February 2021 - July 2021*

- Improved the visibility of CI/CD processes for 5G firmware teams by developing D3.js visualizations for a proprietary pipeline tool

## Elbit Systems

*Fullstack Software Engineer | April 2018 - February 2021*

- Led the development of a new web application from scratch, architecting a resource pool to manage Python-based heavy-analysis microservices and delivering a modern UI
- Contributed to an application for debugging physical RF systems by developing key backend services, which improved engineering efficiency and became part of a core system sold to external clients
- Achieved 3rd place in a COVID-19 hackathon (25 teams) by building an app for an early-warning health app (Vue.js, Node.js)

## EDUCATION

### Tel-Aviv University *B.Sc Electrical Engineering*

04/2015 - 03/2019

Specialization: Computer Engineering, Signal Processing, Energy

## SKILLS

- **Languages:** Python, Node.js, TypeScript, JavaScript, SQL
- **Frontend:** React, Redux, Vue.js, Vite, D3.js, Three.js, Storybook
- **Backend:** Python (FastAPI), Node.js (Express, NestJS), Microservices, RabbitMQ
- **Cloud & Infrastructure:** AWS (EC2, S3), Azure, Kubernetes, ArgoCD, Docker
- **Testing:** Jest, Vitest, Pytest, Cypress
- **CI/CD:** Jenkins, GitHub Actions
- **Data & Databases:** PostgreSQL, MongoDB, Redis, Hasura, Materialized Views
- **Tools:** Git, Jira, NPM, Babel