

# Shaun Taheri

## Tech Lead and Software Engineer

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### Skills

- Architecture** Leading large-scale distributed systems projects from conception to delivery.
- Language** Production experience across a range of languages and paradigms, specializing in building high-performance backends in Rust.
- Infrastructure** Extensive operational experience with high-volume message brokers plus a range of relational, non-relational and distributed databases.

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### Experience

Jun 2023 – **Lead Backend Engineer, BlockJoy, Remote**

- Apr 2025
- Architected and delivered the backend API for managing a fleet of high-performance hosts, enabling scalable orchestration via gRPC and real-time communication via MQTT.
  - Implemented Role-Based Access Control for enterprise-grade control over the management of organizations, users, hosts and nodes.
  - Design and implementation of an architectural pivot from managing web3 nodes to service-agnostic ones.

keywords cloud infrastructure, rust, crypto, rbac, grpc, mqtt, protobuf, nix

Jan 2019 – **Backend Tech Lead, Kraken, Remote**

- Jan 2023
- Managed teams of up to 25 engineers, overseeing the expansion of the core backend team from 5 engineers to 200+.
  - Led the PHP → Rust migration while defining service patterns, coding standards, and platform contracts for new Rust services.
  - Built a risk-engine to score streams of real-time events, identifying potential account takeovers and preventing fraudulent transactions.
  - Spearheaded the backend transition to an event-driven architecture, replacing RPC calls between services while supporting backwards and forwards compatible changes.

keywords trading exchange, rust, tech lead, management, event-driven architecture, crypto, kafka, protobuf

Mar 2016 – **Senior Software Engineer, Advanced Telematic Systems, Berlin**

- Dec 2018
- Built an open-source Rust client for securely applying Software-Over-The-Air updates targeting embedded Linux devices within automotive fleets.
  - Introduced Infrastructure as Code utilizing Nix for deterministic deployments within cloud and data-center environments.
  - Implemented atomic update broadcast to in-vehicle microcontrollers. Presented a demo to HERE Technologies who subsequently acquired the company.

keywords automotive, rust, cryptography, nix, kubernetes, sota, yocto, embedded linux

Nov 2014 – **Senior Developer, Optipay, Berlin**

- Feb 2016
- Design and implementation of an event-sourced microservice architecture to build fault-tolerant Go services that could scale to varying workloads.
  - Built the continuous delivery pipeline for containerized services across CoreOS machines using a distributed key-value store for service discovery.

keywords fintech, go, kafka, microservices, event-sourcing, continuous delivery, coreos, etcd

Oct 2013 – **Lead Developer, LShift, London**

- Sep 2014
- Development of a typesetting platform to extract structured content from Google Docs and output templated PDFs for academic publishing.
  - Built an internal document indexer in Go using Elasticsearch for rapid searching over a large corpus.
  - Provided consultation on managing a heterogeneous set of relational databases across a range of clients. The recipient subsequently acquired the company.

keywords consulting, java, python, ruby, go, julia, elasticsearch

Mar 2008 – **Data Analyst → Senior Data Analyst**, *Centrica*, Edinburgh

- Sep 2012
  - Automated billing on terabyte-scale SAS datasets, increasing recovered revenue from £4m to £7m per annum.
  - Built a self-service analytics portal, cutting executive report turnaround time from days to minutes.
  - Managed a team of 4 data analysts as the youngest person to be promoted to a senior position.

keywords energy, sas, proc sql, vba, python, javascript, analytics, management

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## Education

Sep 2012 – **University College London**, *MSc Computer Science*, London

- Aug 2013
  - Electives in functional programming and information retrieval.
  - One of the top performers with an exam average over 85%.

Sep 2005 – **University of Edinburgh**, *MA Economics*, Edinburgh

- May 2009
  - Electives in game theory and econometrics.
  - Final year dissertation on approximating game-theoretically optimal play in poker.