

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.

Experience

Jun 2023 – Apr 2025	Lead Backend Engineer, BlockJoy, Remote <ul style="list-style-type: none">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 – Jan 2023	Backend Tech Lead, Kraken, Remote <ul style="list-style-type: none">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 – Dec 2018	Senior Software Engineer, Advanced Telematic Systems, Berlin <ul style="list-style-type: none">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 – Feb 2016	Senior Developer, Optiopay, Berlin <ul style="list-style-type: none">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 – Sep 2014	Lead Developer, LShift, London <ul style="list-style-type: none">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

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.