

Shaun Taheri

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Skills

- Design** Service-oriented distributed systems architecture from conception to delivery.
- Languages** Polyglot experience across functional and object-oriented paradigms, specialising in Rust for systems programming and the Nix ecosystem for deterministic infrastructure.
- Software** Kubernetes, Nix, Kafka, Postgres, Git, Docker, Emacs, Vim, Linux, macOS.

Experience

- 2016 – Now** **Senior Developer**, Advanced Telematic Systems (acquired by HERE), Berlin.
- Built an open-source reference implementation of a secure Software Over The Air update client in Rust targeting embedded Linux fleets in the automotive industry.
 - Infrastructure as Code utilising Nix for configuration management and deterministic deployments of a distributed system across cloud and internal data-center environments.
- 2014 – 2016** **Senior Developer**, Optiopay, Berlin.
- Design and implementation of a microservice architecture with Go services using Kafka as an append-only event stream of ProtoBuf messages. Event Sourcing was used to build fault-tolerant services that could partition high volume workloads.
 - Built the continuous delivery operations infrastructure for a pipeline of Docker services across a fleet of CoreOS machines using SkyDNS for service discovery.
- 2013 – 2014** **Senior Developer**, LShift, London.
- Development of a typesetting platform in Python to extract content and structure from Google Docs and return template-formatted PDF documents for academic publishing.
 - Built an internal document crawler in Go using Elasticsearch for distributed indexing and rapid searching over a large corpus.
- 2008 – 2012** **Data** → **Senior Analyst**, British Gas, Edinburgh.
- Analysis of terabyte-scale datasets using SAS to automate manual billing processes with an improvement over the previous system from £4m to £7m per annum.
 - Built an internal Node.js analytics portal supporting thousands of concurrent users, reducing complex report turnaround time from days to minutes.

Education

- 2012 – 2013** **MSc Computer Science**, University College London.
Electives in Functional Programming and Information Retrieval. One of the top performers of the year with an exam average over 85%.
- 2005 – 2009** **MA Economics**, University of Edinburgh.
Specialising in Game Theory, with a dissertation on approximating optimal play in Texas Hold'em poker.