

Shaun Taheri

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Polyglot distributed systems engineer.

Skills

Languages Rust, Go, Python, Julia, JavaScript, Java, Miranda, C, SAS, SQL.

Design Experience with object-oriented or functional programming, relational or non-relational databases, and service-oriented or monolithic architectures.

Software Kafka, Zookeeper, etcd, CoreOS, Docker, SkyDNS, Postgres, ElasticSearch, Yocto.

Experience

2016 – Now **Senior Developer**, Advanced Telematic Systems, 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.
- Implemented a three-phase commit process with crash recovery for mostly atomic updates of multiple ECUs distributed in a vehicle.

2014 – 2016 **Senior Developer**, OptioPay, Berlin.

- Architect and implementation of microservices in Go using Kafka as a Protocol Buffer message broker and distributed database. An append-only event stream was used to event source entity data for fault-tolerant services that can partition high volume workloads.
- Built the operations infrastructure with a continuous delivery pipeline of services running in Docker containers across a CoreOS fleet using SkyDNS service discovery.

2013 – 2014 **Senior Developer**, LShift, London.

- Development of typesetting platform in Python and Ruby to automatically extract content and structure from Google Docs and present template-formatted PDF output for academic publishing.
- Internal document crawler written in Go for distributed indexing and rapid searching with ElasticSearch.

2008 – 2012 **Data** → **Senior Analyst**, British Gas, Edinburgh.

- Automated a manual billing process by migrating business processes to a new database with an improvement over the previous system from £4m to £7m per annum.
- Analysis of terabyte-scale datasets using SAS Data Step and ProcSQL.
- Implemented an internal Node.js portal supporting thousands of concurrent users, reducing complex business reporting turnaround time from days to minutes.

Education

2012 – 2013 **MSc Computer Science**, University College London.

One of the top performers with an overall exam average of 85%.

2005 – 2009 **MA Economics**, University of Edinburgh.

Dissertation on approximating game-theoretically optimal play in Texas Hold'em poker.