

FELIX CHAPMAN

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PERSONAL STATEMENT

A motivated, skilled software developer with experience in backend development primarily in Java, Python and Rust, looking to resume my career after a break travelling and volunteering.

EXPERIENCE

2015 - 2018

Grakn Labs (<http://grakn.ai/>)

Core Developer

- Created Graql (<https://github.com/aelred/grakn>), a declarative pattern-based query language that operates on the Grakn knowledge graph, implemented in Java, using Tinkerpop and ANTLR.
- Achieved remote query execution using protocol buffers and gRPC to stream results over HTTP. I implemented remote clients in Java, Python and Haskell.
- Improved performance of query execution in Moogi - a movie semantic search engine used to demonstrate our software stack.
- Supported loading database schemas into the graph by building a parser for CTM (compact topic map) files.
- Helped implement company processes such as code reviews and automated testing using Travis CI and Jenkins.

2014

University of Southampton

Internship, PLEASED project (<http://pleased-fp7.eu/>)

- Performed classification on signals from plants in response to stimulus.
- Developed Python scripts using scipy and scikit-learn to perform machine learning techniques such as linear discriminant analysis and source separation.

VOLUNTEERING

2018

Montana Youth Hostel, Bergen (<http://www.montana.no/>)

Social Volunteer

PROJECTS

Tetris

Project to learn Rust. Used SDL and compiled into Wasm. (<http://tetris.ael.red/>)

Starling

A functional programming language implemented in Python. (<https://github.com/aelred/starling>)

EDUCATION

2011 - 2015

University of Southampton

MEng Computer Science with First Class Honours

SKILLS

Programming languages

Proficient in Java, Python and Rust.
Experience with JavaScript, C#, C, Kotlin, Haskell and Visual Basic.

Technologies

gRPC, protocol buffers, Git, ANTLR, SDL, Tinkerpop, Maven, Travis CI, Jenkins