Felix Chapman

Software engineer with 8 years of development experience, skilled in Java, Scala, Python and Rust.

ael.red
linkedin.com/in/felixchapman
github.com/aelred
+44 7977 871939
aelred717@gmail.com

EXPERIENCE

eMed UK, formerly Babylon Health — *Senior Software Engineer*

MAY 2023 - PRESENT - Senior Software Engineer
APRIL 2019 - MAY 2023 - Software Engineer

Developing scalable data platforms and pipelines for teams and partners.

- Developed Health Graph, a health data storage system, improving data access for clinical decision-making. The system processed billions of events using Kafka, OpenSearch and FHIR.
- Broke down data silos, by mentoring and supporting teams to independently integrate their systems with Health Graph.
- Designed and built ETL pipelines in Python, making partners' data available to analysts.
- Provided 24/7 on-call support for 30+ microservices addressing errors and ensuring system reliability.
- Enabled teams to iterate and share schemas, by developing a schema publishing platform.
- Created a collaborative Slack knowledge base for looking up terms.

TypeDB, formerly Grakn Labs — *Core Developer*

NOV 2015 - MARCH 2018

Created the query language for TypeDB – typedb.com/docs/typeql/.

- Developed a query planner to transform TypeQL queries into efficient Gremlin graph traversals.
- Designed a fast, remote query execution solution with Protocol Buffers and gRPC to stream results over HTTP, implementing a server and remote clients in Java, Python and Haskell.
- Established company processes including code reviews and automated testing.

EDUCATION

University of Southampton, UK — *MEng Computer Science*

2011 - 2015

PROJECTS

Skakoui – *lichess.org/skakoui*

A traditional AI chess bot that competes online.

NES emulator – *nes.ael.red*

A hardware emulator in Rust, a project to improve my systems programming.

Tetris – *tetris.ael.red*

Tetris implemented in Rust using SDL and Wasm.

Starling – *github*

A functional programming language implemented in Python.

PROGRAMMING LANGUAGES

Proficient in Java, Scala, Python and Rust.

Experience with JavaScript, TypeScript, C#, C, Kotlin and Haskell.

TECHNOLOGIES

Terraform; Kubernetes; AWS; S3; OpenSearch; Kafka; Git; GraphQL; Protobuf; Spring;