Michael Lewis Boyles

I'm a software developer based in London. I'm primarily a Java developer but I've been expanding into frontend tech. I'm currently interested in code generation and transformation, especially for framework development.

Open Source

Redcr v0.0.1
TypeScript, Node, AWS

Compile-time code transformation for Redux reducers

Flamewars (WIP)
TypeScript, Node, AWS

Serverless comment engine

dgs-codegen-maven-plugin v1.3.0
Java, Maven

Maven plugin for generating classes for Netflix's DGS GraphQL framework

Maven contributor
09/2020 - Present

11 accepted pull requests, 4 open

Contact

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Work History

Senior Developer, BGC Partners   03/2020 - Present

TypeScript, React, Redux, Java, Spring Boot

- Led project to rewrite FX trading system UI
  - Java/Spring Boot backend, Microservice architecture
  - Designed and documented services and APIs
- Created many internal tools and shared libs: database management tool, JavaDoc server, SSL cert portal, etc.
- Contributed to build automation, CI configuration, and automated deployments
- Profiled & optimized performance on both front- and back-end (React DevTools, YourKit)
- Interviewed prospective employees

Developer, BGC Partners   04/2017 - 03/2020

Java, Spring Boot, Oracle DB, QuickFIX/J

- Worked on 2 trading systems trading various asset classes
- Designed and developed a constraint solver to calculate contract dates for FX products
- Developed FIX adaptors to integrate with APIs of Goldman Sachs, JPMorgan, UBS, and others
- Investigated & debugged prod issues as 3rd line support

Graduate Software Engineer, HP   09/2015 - 04/2017

C, C++, Java, LuciadLightspeed

- Developed a mission planning system used by the RAF, a monolithic geospatial application
- Fixed bugs and added new features
- Debugged memory leaks with Valgrind
- Developed prototype v2 in Java as part of a small team

Developer, West Digital Marketing   04/2014 - 06/2015

PHP, HTML5, JavaScript, MySQL

- Sandwich year industry placement
- Developed numerous sites using a proprietary templating framework, mostly brochure websites and e-commerce
- Designed, built and distributed responsive, mobile-first HTML email campaigns
- Used Photoshop to produce design proposals for clients

Education

BSc Computer Science, 1st class, Newcastle University
2011 - 2015

- Course was taught in Java with a strong theoretical basis
- Modules in cryptography, graphics and networking
- Led a group project to develop an Android app to achieve a 1st class mark
- Netcraft Programming Award 2012

Technologies

Languages:
Advanced: Java, **Proficient:** TypeScript, C++, PHP
Web: Webpack, React, Redux, Sass
Databases: Oracle, MySQL, DynamoDB
OS: Windows, Linux

Hobbies and Interests

Guitar, music production, fitness, board games, Japanese language (beginner), film, Arsenal FC