

johnngillott

programmer

contact

Manchester
UK

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languages

English

programming

Adept:

Go, SQL, TypeScript

Proficient:

Docker, Kubernetes,
Git, Linux

Learning:

Rust

Forgotten:

Java, C++, Python

profile

A highly passionate software engineer specialized in Go (Golang) and TypeScript, with experience in writing low-latency, highly available and scalable microservices for staffing and finance domain, and sports betting industry. I enjoy the dynamic of working in a progressive environment and knowing that my work directly affects the direction and success of the business. I have experience of working autonomously; however I recognize the greater value of both teamwork and collaboration.

employment

May '19 - **bet365**

Manchester, UK

present *Software Engineer*

I work in the System Sports team responsible for the delivery of real time content across desktop and mobile platforms, to the processing and settlement of transactions driven from that content.

- Co-authored a high performance XML encoder package in Go
- Developed reusable UI components for Web and Mobile using TDD practices, written in a custom TypeScript framework
- Migrated monolithic services written in C# into low-latency, highly available and scalable Go microservices

Go, TypeScript, MSSQL, Linux, Docker, ELK Stack, Jenkins

2017 – 2019 **GRI UK**

Knutsford, UK

Graduate Software Engineer, Software Engineer

I was in the team that developed services for the fulfillment and invoicing of the workforce for both public and private sectors through the UK. Working as a part of a small team on B2B software using Angular and Go.

- Developed scalable, RESTful microservices and internal packages in Go with support for JSON Web Tokens, AWS services.
- Refactored and redesigned an algorithm for processing candidates' work history to calculate candidates' Permanent Equivalent Rate status, with respect to Agency Worker Regulations, for tens of thousands of candidates on a weekly basis.
- Influenced the system design and contributed to the technical architecture of core systems including migrating databases from Amazon Relational Database Service to Amazon Aurora, and containerized microservices to Functions as a Service in AWS.

Go, Angular(2+), ELK Stack, Amazon Web Services, Docker, MySQL, Python, Jenkins, Linux

2016 – 2017 **University of Leicester, Department of Mathematics**

Leicester, UK

Software Engineer (part time)

Worked part-time to develop a learning tool for the Department of Mathematics to teach undergraduate actuarial science students about trading in futures, forex and stocks in a virtual environment. I was responsible for eliciting and managing client requirements to design, development and delivery of the project.

- Sourced and analyzed client requirements to create technical deliverables.
- Provided Java EE, Spring MVC, and Hibernate ORM expertise to team members.
- Worked in a small team with a project manager and other software engineers to deliver features using Agile practices.

Java EE, Spring MVC, Hibernate ORM, MySQL, JavaScript, MySQL

education

2011 – 2016 **MComp** Computer Science, 2:1

University of Leicester

Final year project: An android application to detect and automatically skip over advertisements in digital audio media such as podcasts. Included courses on: Advanced C++ Programming; Service-Oriented Architectures; Advanced Web Technologies; Internet and Cloud Computing.

Third year project: A system to record the attendance of university students using smart card technology to perform identity verification, and a web portal for department staff members to manage smart cards and monitor class attendance. Included courses on: Databases and Web Applications; Operating Systems, Networks, and Distributed Systems; Cryptography and Internet Security.

recommendations

May 2019 **Ryan Gough**

Head of Engineering at GRI UK, Oct 2017 ...

John is an excellent software developer who I was lucky enough to work with for just under 2 years at GRI. He lead the development effort on some complex pieces of work and did a great job. He helped push through improvements to working practices and was generally a fantastic team member. John would be a great asset for any software development team.

Jan 2019 **Justin Taylor**

Head of Engineering at GRI UK, Sep 2015 – Oct 2017

I hired John through our graduate programme, through which he showed immediate promise and his infectious enthusiasm. He is diligent, genial and as effective on a solo project as he is in an agile team. I am proud that he chose our company as his first opportunity to excel in a commercial environment and firmly believe that he'd be an asset to any software engineering team.

open source

April 2020 - github.com/bet365/jingo

Contributor

Feb 2021

- Added support for encoding time.Time
- Unit tests and benchmarks for marshaling slice types
- Added support for encoding map types (under review)

interests

personal: running, cooking and climbing

professional: Static Analysis Tools, Community-driven Developer Meetups, and Go