Graham Keenan

Software Developer

- 07568710770
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- github.com/tyrannican
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Professional Summary

Productive and adaptive Software Engineer with experience in crafting bespoke solutions within cloud-based infrastructures. Main areas of expertise include tools development, backend engineering, cloud-based architectures, and creating robust and reliable solutions which people can rely on for their everyday workflows. Looking to expand my skills and experiences using the latest and most reliable tools/technologies available.

Experience

Software Engineer
BBC (British Broadcasting Company)
Full-Time
January 2022 - Present

Core engineer on a team creating highly-scalable, fault-tolerant APIs and data pipelines in cloud-based infrastructures.

- Core developer and maintainer of highly-scalable data ingestion/hydration pipelines to serve data to high-impact products with 10 million+ MAU.
- Core developer and maintainer of several RESTful and GraphQL APIs serving 450 million+ requests/month to deliver content to end-users across the organisation.
- Architect and design cloud and software solutions within the team for future product needs.
- Designed and developed internal tools in use across the engineering teams to ingest and process large quantities of data from high-traffic sources.
- Maintainer on several MySQL databases used to serve content from the organisation's programme catalogue.
- Experience working with high-traffic, event-driven architectures.
- On-call engineer for live incident response during high-profile events.

Software Engineer
Cronin Lab, University of Glasgow
2016 - 2021

Team leader of the engineering team designing and implementing software solutions in a fast-paced academic environment. Core developer on several in-house development frameworks and tools used in the automation of chemical experiments.

- Designed and developed a modular software architecture for autonomous liquid-handling systems.
- Developed several data parsing and processing tools for large datasets.
- Developed numerous in-line analytical tools for automated systems.
- Managed an engineering team to develop bespoke software solutions for internal and external collaborators.
- Maintained organisation's version control system, ensuring all software developed meets best practices and followed a strict testing policy.
- Developed the organisation's training and on-boarding process for new software hires.
- Software being published in several academic outlets such as Science and Nature Communications.

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Technologies

- Javascript / Typescript, Rust, Python, Go
- ElasticSearch, GraphQL, Redis, Docker
- AWS Cloud Suite
- Relational / NoSQL databases
- IaC (Infrastructure as code) - AWS CloudFormation
- Linux / *Nix system administration
- Continuous Integration / Deployment
- Automated Tooling / Testing - Ansible
- Version Control Systems - Git

Skills

- Working on large scale, high throughput systems
- Adaptive to new technologies
- Writing high-quality and maintainable software
- Team Management
- Interpersonal and interdisciplinary communication
- Effective problem solver
- Solution focussed
- Collaborating with internal/external stakeholders
- Working with agile methodologies
- Working effectively to tight deadlines
- Software engineering training/delivery

Education

PhD (Chemistry / Software Engineering)
University of Glasgow, Dec 2021
Thesis: Software Architecture for Enabling Chemical Discovery via Automated Systems

Msc. Software Development
University of Glasgow, Sep 2015 – Sep 2016
Passed with Merit

Bsc Hons. Chemistry
University of Glasgow, Sep 2011 – Jun 2015
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References

On Request