Graham Keenan

Software Developer

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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
Full-Time
January 2022 - Present

Member of the Data Capabilities team tasked with creating APIs and tools to be used within engineering teams across the organisation.

- Developed highly-scalable systems with AWS to deliver content for high-impact products (News, Sport, iPlayer, etc.).
- Developing and maintaining APIs to serve content for the organisation's programme catalogue.
- Continually maintain several MySQL databases used across the organisation for the organisation's programme catalogue.
- Developed internal tools for use within the team to ingest and process large quantities of data from high-traffic sources.
- Serve as the on-call engineer for live incident response during high-profile events.
- Regularly contribute to internal engineering forums for sharing knowledge and tools.
- Spearheaded the adoption of Typescript for legacy codebases.

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, Python, Rust, Go
- AWS (EC2, S3, SQS, SNS, EventBridge, API Gateway)
- 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 systems
- Adaptive to new technologies
- Team Management
- Collaborating with internal / external stakeholders
- 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