Stuart **Reilly**

SOFTWARE DEVELOPER

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Summary

A self-motivated, caring individual who applies himself in a professional, efficient manner to all tasks. Arch Linux enthusiast, who loves to customize and tweak his installation, revelling in the chance to fix the system upon breakage. Enjoys learning new tools and technologies, providing new, cleaner and simpler solutions through their use.

Work Experience

Intrallect   *Edinburgh & Glasgow, UK*
SOFTWARE DEVELOPER   *Aug 2020 - Present*

- Work within a small team to produce a revolutionary new student hiring platform.
- Extended personal skill set through becoming a full-stack developer as requirements changed rapidly within a small team.
- Orchistrate and aid in multiple major version changes of multiple underlying core frameworks.
- Migrate platform to utilise industry-standard security protocols and platforms, including a custom authentication provider using proprietary voice biometrics.
- Replace a propritary ChatBot tool with an open-source framework for AI engineering, which allowed the use of world-leading Large Language Models.
- Enforce strict automated quality control to ensure minimal tech-debt within the code and maintain a high level of code quality.
- Contribute fixs and improvements to open-source tools and libraries used within the platform.
- Integrate Elasticsearch to provide high quality and efficent searching for the plaform, along with implementing both incremental and periodic bulk synchronisation between Elasticsearch and the platform's database.
- Implement sorting of potential candidates based on their skill set relative to a specific job, taking into account the quality of the candidate's provided proof of each skill, while allowing the weighting of quality metrics be determined on job-by-job basis.

AT&T   *Edinburgh, UK*
SOFTWARE DEVELOPMENT INTERN   *Jun 2019 - Aug 2019*

- Joined a team building a new network operating system for routers as part of AT&T's high speed network.
- Replaced an existing proprietary library with an open source alternative.
- Integrated the new library into the existing build system and CI pipeline.
- Extended a feature of the platform to allow for arbitrary implementations of an interface.
- Introduced a new command line interface to allow for the selection of implementations for the interface.

Cupris   *London, UK*
SOFTWARE DEVELOPMENT INTERN   *Jul 2016 - Sept 2016*

- Contributed to a pre-existing codebase, following predefined style and programming practices, such as Agile Programming.
- Introduced a new workflow to the platform by implementing a new administrative interface.
- Created a specification document, defining the new workflow, API endpoints and security considerations.
- Made use of Vaadin, Spring Boot, Spring Data and Spring Security.

Parc Computer Centre / COR Solutions   *Hitchin, UK*
JUNIOR TECHNICIAN   *Sep 2015 - Jul 2016*

- Undertook a wide array of computer repair tasks for customers of varying complexity.
- Direct communication with customers about their issues, repair status and payment.
- Carried out routine maintenance of internal and customer computer systems.
- Utilised a range of operating systems and tools to carry out repairs.

Education

University of Glasgow   *Glasgow*
COMPUTING SCIENCE BSC (HONS) 2:1   *Sep. 2016 - Jul. 2020*

- Dissertation project was to implement the IETF TAPS API in the Rust programming language.
- Elective courses include Functional Programming, Network Systems, Advanced Systems Programming and Safety Critical Systems.
- Participated in a team project to create a system to record, monitor and graph an organisation's staff performance.

Skills

Programming	Java, Rust, C, Groovy, Python, Bash, Javascript, Typescript, LaTeX
Web	HTML5, CSS3, Javascript, Typescript, Spring Web, Angular, React, Actix Web, Bootstrap, NodeJS, Django
Framework	Spring, Spock, Angular, Tokio, Actix, Vaadin, JavaFX, Java Swing
Security	Spring Security, Auth0, Oauth2, Passport.js
Tools	Git, Intellij IDEs, VIM, Make, Docker, Jenkins, GitLab Pipeline
Database Management	MySQL/MariaDB, MongoDB, PostgreSQL, Elasticsearch
Operating System	Windows, Mac OS X, Linux/Unix

Extracurricular Activity

Pause Gaming LAN Society   *University of Glasgow*

PRESIDENT 2018 - 2020 & CORE MEMBER   *Sep. 2016 - Present*

- Pushed the society to update the aging networking infrastructure.
- Interacted with multiple other societies to provide interesting society mixer events.
- Communicated with the Student Representative Council to ensure the society's longevity and continued use of the University's space.
- Changed the committee's priorities to encourage new members, rather than exclusively targeting pre-existing members.

GUMAF   *University of Glasgow*

SOCIAL SECRETARY 2019 - 2020   *Sep. 2019 - Present*

- Organised a variety of events to encourage a typically introverted demographic to socialise.
- Communicated with the Queen Margaret Union to make use of their space for events.
- Organised cross-society events to encourage more people to join the society.