Aidan Gallagher

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Experience

Cloudflare - Senior Systems Engineer   Jun '24 - Present

- Enabling Cloudflare's transition to white box networking through SONiC, a Linux-based NOS.
- Build and maintain Cloudflare's custom SONiC images deployed across Cloudflare's network.

AT&T Labs / Ciena (Vyatta Division) - Software Engineer   Apr '21 - Jun '24

- Developed software (Python, Go & C) for the Vyatta Network Operating System.
- Conducted technical hiring interviews.
- Delivered technical training sessions to customer support and to graduate engineers.
- Created debpic, a containerised build tool for developers & CI systems. Compared to the previous tool it is 4x faster, requires 3x less lines of code in every Jenkinsfile, 2x more reliable, and more intuitive.
- Enhanced modularity by refactoring the quality of service (QoS) module within the data plane.

Leonardo - Senior Software Engineer   Sep '17 - Apr '21

- Developed mission-critical software for a next-generation radar system. From the project's inception, I played a key role in defining the architecture, deciding on the technologies, and forming processes.
- Held reviews and made high-level decisions covering all stages of the development life cycle (requirements, design, implementation & test).
- Helped the company's first agile transformation project as a certified SAFe Advanced Scrum Master.
- Responsible for breaking down, estimating and prioritising tasks as part of the project's agile workflow.
- Utilised my strong understanding of C++ to develop new components, port legacy code and review pull requests.
- Architected the template for the component white box design which is now used across multiple teams.
- Wrote and maintained the build system (CMake) and CI pipeline (Jenkins & Python).
- Identified repetitive tasks and implemented Python scripts to automate them to improve team performance.
- Mentored engineers in multiple technical areas (C++, CMake, Jenkins, software design).
- Discussed strategic technical decisions as a member of the company architecture forum.

Army Reserves - 4th Battalion Parachute Regiment   Sep '13 - Present

- Developed a wide range of transferable soft skills including leadership, management, teamwork, and communication.
- Achieved level 5 certificate in management and leadership from the Chartered Management Institute.

Skills

Programming:	Python · Go · C++ · Bash · CMake · Make · Git · Code Generation · OpenCode
Design:	Domain Driven Design · SOLID OOP · OOP Design Patterns · UML · Software Architecture
Operations:	Docker · Debian Linux · Networking · Gitlab CLI · Atlassian Tools · Debian Packaging
Workflow:	Agile · Scrum · TDD

Education

Heriot-Watt University - MEng Computing and Electronics (Distinction)   Sep '12 - Jul '17