Chris Scutcher   chris@scutcher.uk +44 7743 186526 chris.scutcher.uk LinkedIn GitLab GitHub

Computer engineer with a wide range of experience with both digital electronics and software of all types. I adore Python and Linux based development with 10+ years experience as lead developer, architect and advocate. I pride myself on being extremely flexible, able to work full-stack and quickly adapting to new technologies. I have worked for many years now in a fully remote role both developing software for, and evangelising for, the benefits of fully remote collaboration. I passionately believe that remote, fully-integrated, decentralised working environments have huge potential to catalyse innovation and change the world for the better. In my spare time I enjoy running a complex home-lab, open source development, crypto-currency and machine learning. I'm a keen maker and enjoy projects involving electronics, woodworking and metalworking. I am also an avid PC gamer.

</> SKILLS

Python	python-3.6 python-2.7 twisted scikit-learn asyncio pytest django zope
Linux Development	Scripting Bash Ubuntu Arch C++ Git Agile Architecture
DevOps	CI/CD Jenkins Ansible Test-Driven-Development Docker Virtualisation
Telepresence	SIP Remote Colaboration B2BUA
Machine Learning	SciKit Learn numpy tensorflow
Other	Groovy Embedded Systems C Erlang PHP OpenVR

</> EMPLOYMENT

Software Engineer (formely with Tandberg), Cisco   Aug 2010 — Present

Team lead, architect and developer on a wide variety of projects for video conferencing (SIP, Spark) and remote collaboration on cloud, on-prem and embedded products. More recently also developing machine learning prototypes for device serviceability. Required to be extremely flexible, quickly adapting to new projects and technologies with heavy use of Python, Twisted, C++, Erlang and Git in Linux environments. Full stack development including architecture, test driven development and dev-ops. Working primarily remotely, in an international team using agile scrum methodologies, maximising the potential of remote collaboration to work efficiently across multiple time zones.

Python twisted asyncio SIP REST Linux Jenkins Ansible Automation Remote Collaboration B2BUA Embedded Systems Agile Git Scrum Telepresence Erlang Architectural Design C++

Engineer, Critical Software Technologies Ltd   Jul 2008 — Sep 2009

Project lead on SHARE project. The SHARE project aims to facilitate open source software code sharing and utilisation within the embedded system domain, creating a nurturing environment for applications and solutions to be developed on OSS middleware, paving the way for new business models and services. SHARE is an international project made up of a consortium of companies. Project lead on project to develop open source toolchain for certifying DO-178B safety critical software. This work in part lead to developing a Django based tool which interacts with LDRA and other tools. I was also taking part in the validation and verification for C software running on embedded target using LDRA.

LDRA Defence Safety Critical Embedded C DO-178B C Open Source EU SHARE Django Python

</> PROJECTS

Machine learning based on-prem device servicability tool   Mar 2018 — Present
Python SciKit Learn Splunk Asyncio Machine learning Test-Driven-Development Team Lead Architect

Integrating traditional video calling into a hybrid VR experience   Aug 2017 — Present
C# Unity SIP Gstreamer OpenVR HTC Vive Team Lead Architect

Embedded VOIP/Telepresence and room assistant   Jan 2017 — Mar 2018
C++ Python GRPC Linux Test-driven-development Splunk Devops Docker Github BLE Bluetooth WifiDirect Microservices Serviceability Team Lead Architect

Cisco VCS/Expressway   Aug 2015 — Jan 2017
C++ SIP Python Linux Git Jenkins Jenkins Pipeline Groovy Docker Dev-ops Ansible Bitbucket JIRA B2BUA

Cisco Telepresence Conductor   Aug 2010 — Mar 2015
Python Twisted Erlang PHP MnesiaDB Linux REST Conferencing Team Lead Architect

</> EDUCATION

MEng Computer Engineering, University of Southampton   Jan 2004 — Jan 2010

</> **TESTIMONIALS**

Tim Gleeson - Software Engineer Technical Lead (Voice, Video and Collaboration) at Cisco Systems

I've worked with Chris as a colleague on several projects in several languages and environments over the last five years. I've not met many people with as profound a knowledge of a programming language as Chris' knowledge of Python. This doesn't make him unapproachable, rather it affords him with the ability to present multiple alternatives to problems (with all their pros and cons) which he's been very happy to provide. Chris is quite passionate about his work. He has no problem asking uncomfortable questions and unearthing unstated assumptions in his commitment to delivering the best solution possible. Chris' insight and perspective has consistently provided the team with a fuller understanding of the problem space and multiple paths to solutions. His quest for quality doesn't just lie in code: he's driven automated testing, documentation and tooling for the broader development environment. I wouldn't hesitate to work with him again.

Stephen Dowling - Technical Leader at Cisco

I've had the privilege of working with Chris for the last seven years and have seen him progress from a talented programmer into an excellent all round engineer able to take on complex problems and architect maintainable solutions. Chris is technically gifted with the deepest understanding of python and git I've ever come across (as well having good C++ skills) coupled with the desire to help others improve their skills. He's done this through group presentations, small workshops, documentation and is always willing to work one on one with a colleague. He more or less single handily transitioned our product from SVN to Git and updated the pipelines we use to facilitate this. Chris is passionate about technology, be it giving in-house training sessions on programming in Virtual Reality to making significant breakthroughs in a machine learning innovation project in a short space of time. He's an advocate for remote working and through his actions and outcomes shows what a company can achieve when people are trusted to do the right thing. Given the space to work on interesting, complex problems Chris flourishes and will research possibilities before making a decision that he can then explain the pros and cons of. In person Chris is a warm and friendly person happy to guide and explain. Chris is brilliant, and I recommend him and would love to work with him again.

Carey Parker - Software Engineer IV at Cisco Systems

I had the pleasure of working with Chris and his team on a project to completely revamp and upgrade our problem reporting framework for a new cloud-based collaboration system. I acted as a sort of Engineering PO for this project. Chris is sharp, motivated, and easy to work with. He always impressed me with his technical knowledge, work ethic and attention to detail. He regularly advocated for the right solution over the quick solution. I can recommend Chris without reservation.

Jon-Paul Sullivan - Organizer at DevOpsDays Galway

Whenever I worked with Chris I was impressed at how easy he made everything. His willingness to collaborate was commensurate with his knowledge. He looked to learn new or better ways of doing things, but completed the required tasks at hand first, ensuring that the team was both productive and well positioned for future change. Chris has a good understanding of operational requirements and development processes, and created software delivery pipelines that operated across multiple software repositories.

Simon Kampa - CEO at Senseye Ltd

Chris is very positive, creative, lively and hard working engineer who will always help get the most out of a team. He is intelligent and will often have a unique angle on a problem. Chris is also very willing to learn and is always seeking for ways to improve. I have no hesitation in recommending Chris.