

Charles Cochrane

www.CharlesCochrane.com
Telephone: (+44) 7765174945
Email: cochrane26@gmail.com

2A Spencer Road,
Eastleigh, Hampshire, UK
SO50 9GR

Profile

A passionate and creative software engineer with experience in corporate, academic and military settings. Seeking challenging technical roles to learn new and hone current skills, work with interesting and experienced professionals and deliver quality, well designed work. A lover of learning with a strong team ethic.

Employment History

IBM Corporation: Software Engineer

2014 - Present

I currently work on the IBM Container Service, a Docker remote registry and container hosting solution. Also at IBM I previously worked on Cloud Foundry and WebSphere Liberty profile, a lightweight Java application server.

IBM Corporation: Technical Consultant

2013 - 2014

I worked as a data specialist and have grown a strong set of technical and consulting skills, working with many different project teams and clients such as Vodafone and Nationwide to provide masked and live data solutions.

Intel Corporation: Customer Quality and Reliability Engineer

2011-2012

13 month placement with a breadth of projects, working with customers on hardware, software and manufacturing quality. I gained priceless early experience and self-confidence in large teams and with clients.

131 Commando Royal Engineers: Sapper

2009-2011

Trained Soldier and B3 Combat Engineer

Qualifications

Plymouth University: BEng Robotics

2009-2013

Received a 2:1 with honours. Included modules of programming, hardware design, electronics and robotics

Bridgwater College: A/AS levels

2007-2009

3 A levels: Maths, Biology and Physics. 1 A/S level: Computing

Skills and Knowledge

Programming Proficiencies

I am passionate about programming, having produced open and closed source software used by Intel, IBM and their many customers. I am fascinated by highly distributed software, concurrency, parallelism, SOA, scalability, orchestration and containers. I learnt to program using C and C++ throughout my childhood and university, having since also learned Go and Java, most of my experience has been in compiled languages. I have also used JavaScript (Node.js and client side) and Ruby extensively. I run a Go reading and teaching group and am part of the local Software Craftsmanship community, who host regular talks and code retreats. I write a lot of software in my free time and contribute to some open source projects, most of which is available on Github.

I work mainly on Linux and am comfortable on the command line, though I do have windows development experience as well. I love working with open source software; in standing up many cloud based services I've come to use applications like Nginx, HAProxy, Consul, Docker and Jenkins and the ELK stack often. I have SQL experience, generally with SQLite, and work mostly with noSQL datastores like CouchDB and InfluxDB or Key/Value stores like Redis, Etcd and BoltDB.

Hosted Service Experience

For the last 2 years I have been working exclusively on large, cloud hosted services. For the last year I have worked on IBM's Docker container hosting service, a cloud based PaaS. I've been working mostly in small teams, using TDD and agile practices to get work out of the door quickly. Using continuous delivery and thanks to our use of cloud infrastructure, we can push bug fixes and new features through test environments and to production in hours. I like working in smaller team sand am happy with not only development, but testing and deployment as well. I understand the challenges associated in running a production service and have experience being on call and dealing with severe incidents.

Hardware Knowledge and Robotics

Although not my chosen career path, I still enjoy robotics in my free time, blending my hardware and software knowledge. During my studies and free time I've produced multiple embedded and robotics devices. Intel also gave me extensive training and experience on the Silicon manufacture processes and on low level computer architecture. I am comfortable and experienced in hardware design, PCB manufacture and FPGA programming with VHDL. With this knowledge I am also experienced in low level coding with C and previously in assembly language. Some project examples:

- ALBot: a machine vision toy able to follow objects and produce music based on its surroundings.
- Cayley 1: a low cost quad rotor helicopter built from scratch with my own flight control software.
- Robomato: a self regulated tomato growing environment for crop production in extreme environments.

Professionalism and Experience

Working at Intel and IBM has taught me a lot about professional standards and teamwork. Also, my time in the military added to my hard working ethic, performance under stress and time management skills.

- Used to working as part of a team in corporate, high pressure environments. Have worked in global teams and enjoy learning from different cultures and countries. Have lead small projects and understand the importance of delegation and team dynamics.
- Great presentation and people skills. I have presented around the country and have given many technical presentations; for example presenting a talk at Stephen Hawking's 70th birthday symposium on modern silicon manufacture. I've had lots of client bid and technical presentation experience and love doing it.
- Time and project management: setting project milestones, punctuality and meticulous planning have helped me achieve a high working standard. Was responsible for multiple high level projects at Intel and IBM, all of which were delivered to high standards on time, examples of which can be demonstrated on request.

Other qualifications and awards

Plymouth University Radio: Radio Host

2012

Hosted the "Rock Show" and co-host a current affairs talk show "News'd and Abused".

Haygrove School: Electronics Award

2006 -2007

I was given the responsibility of being a prefect and updating the student run school website. I received the best student award for electronics for overall effort, quality of work and top grade.

Duke of Edinburgh award: Bronze and Silver

2006 - 2009

Interests

- Video games: from an early age I have been enamoured with video games. It's the perfect mix of interactive storytelling and competitive play!
- Travel: I love backpacking, meeting new people and immersing myself in different cultures.
- Fitness: avid road cyclist, gym frequenter and amateur boxer.

References

Available on request