Murray Cumming

Name:	Murray Cumming		**Email**:	murrayc@murrayc.com
Address:	Munich, Germany		**Web**:	murrayc.com
Date of Birth:	11th May 1973			OpenHUB, GitHub
Languages:	English (native), German (fluent)		**Nationality**:	United Kingdom, Germany

Experienced **C++, Java,** and **Go** developer, usually on **Linux**, working on systems programming, desktop, mobile, backend, and web. Focused on software quality and end user goals. Always learning. Successful in technical, management, and customer-facing roles. Experienced open-source developer.

Skills

C++: GTK, gtkmm, Qt, git, automake, autoconf, CMake. Modern C++

Java: Android, GWT, Eclipse, Android Studio

Go: gRPC, Datastore, OpenCensus

Databases: PostgreSQL, MySQL

Employment

2019 - present   **Google Germany GmbH**, Munich, Germany   **Senior Software Engineer, Teach Lead**

I led a team working on client endpoints and input experiences for the Stadia streaming game platform.

As team lead, I identified product requirements, designed systems, and supervised designs and implementations. I built a productive team by establishing a culture of thorough documentation, robust code, and shared understanding, providing opportunities for individual excellence.

C++, Java, JavaScript, TypeScript, Dart

2017 - 2019   **EGYM GmbH**, Munich, Germany   **Team Lead**

I lead a team working on:

- User interface for electronic exercise machines (C++, Qt, gRPC, CMake, Docker)
- Backend services (Go, Java, Scala, Kubernetes, gRPC, OpenCensus, Stackdriver).

I drove a process of discovery, documentation, and refactoring, creating a well-understood platform on which we built new features while ensuring reliability for our many active users.

I maintained a culture of quality, respect, and purpose, ensuring that developers felt supported by each other to create lasting work they could be proud of.

2006 - 2017   **Openismus GmbH**, Munich, Germany   **Founder , Managing Director, and Developer**

Management

I built a team of highly skilled Linux C++ and Java developers around a culture of communication and responsibility, working with customers such as Nokia, Intel, OLPC, and Canonical.

I recruited and trained personnel, anticipating future needs while pursuing new business. I created detailed technical proposals and schedules in response to customer requirements, then managed

projects to completion. I also managed finances across our two locations in Munich and Berlin.

Development

- Modest email client for Maemo (C, GTK+, tinymail)
- qtcontacts-tracker (C++, Qt, tracker, RDF)
- libmeegotouch (C++, Qt)
- Maliit input method framework and virtual keyboard (C++, Qt)
- Onine-Glom (Java, GWT, PostgreSQL)
- Glom (C++, gtkmm, Python, Boost, PostgreSQL)

2000 - 2006   **Consulting (Freelance)**   **Software Developer**

2006   **Siemens AG**, Munich, Germany
Refactoring and stabilisation of a C++ streaming media control sub-system for a VoIP project on an embedded Linux platform.

2005   **Web.de GmbH**, Karlsruhe, Germany
Implementation of a high-performance C++ client-server network system on Linux for fast retrieval of user profiles from large data sets, for targeted online advertising servers.

2004   **Sci-Worx GmbH**, Berlin, Germany
Cross-platform Push-To-Talk and Presence software, for mobile phones, using C++.

2003 - 2004   **Comneon**, Linz, Austria
Mobile C++ GUI: integrated T9 predictive-input system and designed audio subsystem.

2002   **Blueprint Software Ltd**: London, UK
C++ Mac and Windows extensions for FileMaker Pro, interfacing with Java and Python.

2001   **Beta Research GmbH**, Munich, Germany
GUI for access control of digital satellite TV. C++, Qt, Solaris, DbTools.h++, Xerces-C++.

2000   **MyBau.com AG**, Munich, Germany
Development of JSP-based website.

1999 - 2000   **Giesecke & Devrient GmbH**, Munich, Germany
Development of applications to manage smartcards. Visual C++.

1998 - 1999   **ORGA Card Systems (UK)**, Maidenhead, UK   **Applications Development Engineer**
Creation of a smartcard development IDE and utilities. Visual C++.

1997 - 1998   **Blueprint Computer Software Ltd**, London, UK   **Senior Applications Developer**
Development of highly usable bespoke relational database systems. Filemaker Pro, Visual C++.

1996 - 1997   **Space Airconditioning plc**, Guildford, UK   **Systems Designer**
Complete overhaul of transaction and stock management database.

1995 - 1996   **Makin Rochard Ltd**, Hampton Wick, Surrey   **Applications Developer**
Bespoke relational database solutions, using FileMaker Pro.

1993 - 1995   **Stibo Datagraphics**, Swindon, UK   **Typesetter**
DTP using Quark, PhotoShop, etc on MacOS.

1992 - 1993   **Temporary / Short-Term Contracts**, Swindon, UK   **Administration**
DTP and data entry

Education and Qualifications

06/2014	Goethe-Institut	German: Goethe-Zertifikat C1
08/1991 - 06/1992	Edinburgh University, UK	Politics, Psychology, Social Policy: First year only.
09/1989 - 06/1991	New College, Swindon, UK	A Levels 1A, 3Bs, 1C
09/1984 - 06/1989	The Commonweal School, Swindon, UK	GCSE 8As, 1B

Open-Source Projects

Project	Description	Role
gtkmm	The official C++ interface for the popular GUI library GTK+. Linux/Unix/Windows library.	Lead Developer
libsigc++	C++ signals/slots template-based library used by gtkmm.	Lead Developer
Glom	Generic GUI database design and editor application, for PostgreSQL, built in C++ with GNOME technologies for Linux.	Lead Developer
Android Galaxy Zoo	Official Android citizen science app for classifying Galaxy Zoo subjects. Java, Volley, REST, JSON.	Lead Developer
iOS Galaxy Zoo	Official iPhone / iPad citizen science app for classifying Galaxy Zoo subjects. Objective-C, REST, JSON.	Lead Developer
bigoquiz.com	Website offering computer science quizzes, tracking personal progress. Java, GWT, GWTP, AppEngine, Objectify.	Lead Developer

Others

2002 - 2005	**Member of the GNOME Release Team**

I helped to establish time-based releases, integrating multiple projects with little explicit coordination, via a reliable repeating 6-monthly schedule of beta releases, API freezes, UI freezes, string freezes, code freezes, etc, and quality guidelines.

2004 - 2005	**Member of the GNOME Foundation's Board of Directors**

I helped to organize the GUADEC conference and shared ongoing administration.

Referees

Quim Gil, Technical Contributor Coordinator, Wikimedia Foundation, qgil@wikimedia.org

Jens Georg, Senior Developer, Advanced Driver Information Technology GmbH, mail@jensge.org