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Work Experience

Interpeer Project, Greifenberg, Germany   01/2020 - present
Building the future Internet   `https://interpeer.io/`

Research & development in novel distributed networking technologies aimed at avoiding single points of failure and fighting censorship in the future Internet.
Funded in part by the European Commission as part of the Next Generation Internet Initiative (NGI0).

Finkhäuser Consulting, Greifenberg, Germany   01/2014 - present
Software Architecture & Engineering   `https://finkhaeuser.de/`

Software consultancy as before, but based in Germany.

- At secunet, provided training and support for cross-platform C++ development to the protect4use product team. Also wrote a C++ implementaiton of the JWT standard.
- At Joystream, specified and implemented an early version of the storage backend using Substrate blockchain technology and the IPFS distributed file system.
- At Chrono24, worked on improving the Android app with a focus on improving the technological base. Also contributed to introducing better workflows for mobile development and testing.
- At Lesson Nine GmbH, introduced a testing strategy, BDD and test automation tools. Developed further test automation tools and test suites, and formed a test automation chapter to continue the work.
- With WebWeaving, conduct technical due diligence work.

spriteCloud B.V., Leiden/Amsterdam, The Netherlands   08/2010 - 10/2015
Founder/CTO   `http://www.spritecloud.com/`

spriteCloud offers software quality assurance services with a focus on test automation, performance & load testing and mobile testing.

- Product management and lead development on https://calliope.pro, spriteCloud's own test automation product.
- Client: VPN technology for Android CrowdRoaming crowd-sourced roaming app.
- Client: Android NHK WORLD TV video streaming client via for StreamHub/fivecool.

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Work Experience (continued)

Freelance, Colchester, UK   07/2009 - 06/2011
Software Architecture/Engineering/Consulting   `https://finkhaeuser.de/`

Specalizations include iOS, Android and high performance networking, including P2P. API design and project lead usually included in projects.

- PlayAndroid: Android games store for Rumble Media GmbH.
- audioBoom: Android podcasting app for AudioBoo Ltd.; includes native audio recording and analysis.
- Nutrisystem: iOS app for Wellness Layers, Inc.
- New Breeders: Android white-label app for Sogeo Company; includes AR features.

Joost UK Ltd, London, UK   01/2008 - 07/2009
Senior Software Engineer   `http://www.joost.com/`

Emphasis on portable networking code, UDP/IP, C/C++, multi-threading and integration with Skype's P2P stack.

- Development of the Peer-to-Peer (live and on-demand) streaming layer on which Joost's IPTV service used to build.
- Principal developer of the Joost iPhone client, an app with over 1.1 million downloads.
- Sole developer of the Joost Android client.

Joost Technologies B.V., Leiden, The Netherlands   01/2007 - 12/2007
Senior Software Engineer   `http://www.joost.com/`

Same position as at Joost UK, but under contract with the Dutch office.

Amator Veritas Verlag, Siegburg, Germany   05/2002 - 08/2007
Managing Director/Associate   `http://www.amator-veritas.de/`

Amator Veritas Verlag is an independent publishing house, started to publish lesser known authors with the intent of providing them a stepping stone towards building out a career.
Due to the small size of the company, the work included everything from editing, typesetting, bookkeeping to managing both artists and all other aspects of the company.
It became impractical to continue in this position when I moved to the UK.

Astaro AG (now part of Sophos), Karlsruhe, Germany   11/2005 - 12/2006
Software Architect   `http://www.astaro.com/`

Development of the Astaro Command Center, a web-based administration suite for large numbers of Astaro's unified threat management appliances. Emphasis on scalable C++ architecture, multi-threading, STL/Boost, XML-RPC.

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Work Experience (continued)

WEB.DE AG, Karlsruhe, Germany   11/2002 - 10/2005
Software Developer   http://www.webde.de/

Part of the core technology team at Germany's largest (at the time) web portal; responsibilities included:

- Development of web application servers based on the Apache HTTP server.
- Development of central components for other teams' use.
- Development of RPC servers.
- Technology consultant to other teams.
- "Competence centre" for WebDAV, Subversion technologies.

Emphasis on C++/Python, Webserver architecture, Apache modules, IPC, Databases, tech evangelist role within the company. *The WEB.DE brand has since been bought by 1&1 Internet which also operates in the UK.*

Sevenval AG, Köln (Cologne), Germany   12/2000 - 06/2002
Software Developer   http://www.sevenval.com/

Sevenval AG develops various products based on it's patented Filtering Integration Technology (FIT), a web proxy that allows on-the-fly merging of websites.

- Led the team to design and implement the management/reporting frontend for FIT installations.
- Design of a simple messaging protocol for interprocess communication in FIT clusters.
- Integration of a Macromedia (Adobe) Flash file parser into FIT.

Emphasis on PHP, C, Apache modules.

Zivildienst (Conscription)   01/1998 - 02/1999

Germany has conscription for male citizens. Men are obliged to serve in the military for a set amount of time, but can make conscientious objections to such service and instead perform civilian service.

Until mid 1998 I worked as a driver and janitor in the Kinderdorf (children's village) Hollenberg, Lohmar. The rest of the term I served with the MSHD (mobile social emergency service) of the Arbeiter-Samariter-Bund, Troisdorf.

Education

b.i.b., Bergisch Gladbach, Germany	1999 - 2001	

Staatlich geprüfter Informatikassistent Fr. Multimedia
(certified computer science assistant with multimedia specialisation)
Final grade 1.6 *(1 = best pass, 4 = worst pass, 5/6 = failure)*

Städtisches Gymnasium Alleestraße, Siegburg, Germany　　1994 - 1997

Abitur/allgemeine Hochschulreife *(A-level equivalent)*
A-levels English, Mathematics, Computer Science, Physics
Final grade 2.5 *(1 = best pass, 4 = worst pass, 5/6 = failure)*

Hampstead School, London, UK　　1993 - 1994

A-levels English Literature, Mathematics, Computer Science
Did not stay in the UK long enough to graduate.

Städtisches Gymnasium Alleestraße, Siegburg, Germany　　1987 - 1993

Grundschule, Lohmar, Germany　　1983 - 1987

Skills

Programming Languages
C/C++ (STL, Boost, Template Metaprogramming)
Python
Ruby
Node.js/JavaScript
Java
PHP
Perl
plus Lua, Pike, x86 assembly, Objective-C, Swift, ...

Development Platforms
Linux
Android
iOS
OS X
Windows
Rails
plus OpenBSD, FreeBSD, ...

Protocols
P2P
TCP+UDP/IP
HTTP/WebDAV
SMTP/POP3
plus XMPP, DNS, IMAP, SSL/TLS, ...

Markup
XML/HTML + CSS
T_EX/$\LaTeX$

RPC/RMI Technologies
JSON
Protobuf
Web Services
plus XML-RPC, CORBA, ICE, custom protocols, ...

Build Tools
(GNU) Make
Autotools
SCons
plus imake/xmkmf, custom automated builds, RPM, APT, ...

SCM Tools
Git
Subversion
Monotone
Mercurial
plus CVS, arch/darcs, ...

Miscellaneous
Unit & integration testing
Test Automation
Debugging
Profiling
Language bindings
Cryptography
Amazon AWS
OpenGL
SQL/NoSQL

Languages

German	fluent
English	fluent
Italian	beginner
Romanian	beginner

Affiliations

Assoc. for Computing Machinery	2010	-	current
Free Software Foundation	2008	-	current
British Mensa	03/2008	-	03/2009
Mensa in Deutschland	08/2006	-	03/2008

Work Permit

As a German citizen, I do not require a work permit anywhere in the European Union and European Economic Area.