
Résumé

Karolin Varner

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Birth: 12.11.1993 in Munich
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Profile

I am a programmer with about thirteen years of general programming experience and six years of professional experience. I have been working on various kinds of projects; besides the projects introduced in more detail below, I have worked on soup.io (rails, postgresql) and Inexor, a C++ shooter in which I was responsible for creating a low level IPC framework using protocol buffers. This framework was supposed to be the basis for automatic synchronization between instances and for interfacing with node.js and other scripting languages.

I am self educated and a very fast learner; my usual approach to any kind of problem focuses not only on existing knowledge but on researching specialized solutions for the problem at hand. I am usually capable of productively working with a new library in hours and with a new programming language in two or three weeks.

I particularly focus on security and open source in my work. Where possible, all of the software I work on is published as open source. 2016 I was invited to MongoDB conference, because I found a class of buffer overflow bugs in their C++11 driver while contributing to their code.

I consider Planning, Quality Assurance, Operations and training other programmers as key parts of my responsibilities. If possible, I will also try to understand the full product cycle: my most successful projects have been those where I could gain an understanding of all aspects of the product, including sales and product design.

Projects

Until the end of 2017 I was working for Softwear, a Dutch company developing logistics software for the international fashion industry. My main responsibilities there were planning the long term architecture and the move away from the legacy system. I also spend a lot of time doing QA. The company has multiple databases/systems that need to be synchronized: a legacy system from the 80es, a modern backend and multiple modern offline browser applications. I mainly worked on the intersections between these systems, defining the highly asynchronous protocols for synchronizing the states of all three systems. This includes frameworks for modeling, checking and caching data on the frontend (JS) as well as the backend (Python/Mongodb). In addition to that I was writing the high performance C++14 application parsing their legacy databases and pushing data to their modern backend. (When I left the company we're processing about 100GBytes of data in 40 minutes every night).

Currently I am working for Qabel, a German company that develops cryptographic protocols for embedded devices. My responsibilities include implementation and testing of these embedded cryptographic protocols and I am responsible for introducing modern software engineering principles into the embedded environment (TDD, generic programming, ...).

Skills

- The programming languages C, C++ (mostly C++17), Java, Python, Javascript, Type Script, Shell, AWK, Sed, LaTeX, Ruby, Kotlin.
- Some experience in Rust, Haskell, Prolog, Elixir, Erlang, Scheme, Scala, Common Lisp, Erlang, Go and OCaml
- Excellent familiarity with the POSIX programming interface
- Experience developing cryptographic & systems
- Extensive experience developing in embedded environments (esp8266, Arm M7 cores)
- Administration of UNIX and Linux servers
- Administration of small and medium networks
- The technologies TCP, UDP, IP, TLS, Git, SVN, QT, Mongodb, Bson, SQL (mostly Postgresql), Ruby on Rails, Pyramid, Boost, Protocol Buffers, Captain Proto, Dbase/Foxpro (manual parsing)
- Experience in test-driven development, functional programming, concurrent programming, reactive programming and specialized data structures
- Extensive experience doing Quality Assurance
- A lot experience planning and estimating Projekts
- German (Native)

- English (C2)

Programming & Professional Development

- since 2003 Learning to program
- 2006 Short internship at the workshop for precision engineering at the Meteorological Institute in Munich
- since 2007 Developing Open Source software
- 2010 Short internship at the *Grafikhaus* design studio
- 2011 Month-long internship at *Ottmann Architekten* architectural bureau where I was entrusted with design tasks
- 2011-2015 Offering consulting and programming services as a freelancer
- 2012-2013 Developing a product photography solution for Videri Project
- 2013-2014 Developing for the social network *soup.io*
- 2014 Developing the map application for Premium Cola
- 2014-2015 Rails Development and QA for Nimeau
- 2015-2017 Lead Developer for Softwear, developing high performance data processing software
- since 2018 Senior Embedded Developer for Qabel, implementing cryptography protocols in an embedded environment

Education

- 2004–2010 Grammar school
- 2011 Technical FOS (*a form of higher subject specific schools*)
- 2011 Participation in *Jugend Forscht* (a german science competition) with a web crawler and analyzer
- 2012–2014 Sabel school: Apprenticeship as an assistant for IT
- 2013 Professional Development Programme at the European college of business and administration in London

Degrees & Certificates

- Mittlere Reife (*German diploma of secondary education*)
- Certificate of participation in the Professional development programme of the British-German chamber of commerce
- Training certificate as an assistant for IT, with my average grade being 1.5 on a scale from one (best) to six (worst)



Subject: Recommendation for Karolin Varner

Nov. 12 2017

Dear Hiring Manager,

It is my pleasure to recommend Karolin Varner for employment with your organization. I have known Karolin for over two years during which time she worked as a lead developer in our company.

I have been consistently impressed with Karolin's extreme development skills and profound knowledge of algorithms, deployment, continuous integration, agile procedures and the IT landscape as a whole.

Karolin is both very bright and motivated. I am confident that she will devote herself to a position with your organization with a high degree of diligence. She is a quick learner and has shown the ability to digest large volumes of information in record time.

Ms. Varner has demonstrated the ability to articulate information and ideas in both verbal and written forms. She was also able to bring the level of our development team to a higher level. Karolin was very effective in increasing the overall quality of our software solutions both from direct contributions to new systems to indirect observations about existing systems.

I recommend Ms. Varner without reservation. I am confident that she will be able to make valuable contributions to your company. Please let me know if you have need for additional information about this outstanding young woman.

Sincerely,
Jeroen de Vries

CEO Software

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