CURRICULUM VITAE

Rolf Schröder
Lomonossowstr. 20
18059 Rostock
Germany
+49 15 73 39 86 753
rolf.schr@posteo.de

Educational background

2011-2013	Master of Science in Computer Science at the *Technische Universität Berlin* (Technical University Berlin), grade[1]: 1,3
2008-2011	Bachelor of Science in Computer Science at the *DFHI* (German-French university cooperation in Metz [France] & Saarbrücken [Germany]), grade: 1,1
2007	*Allgemeine Hochschulreife* (university entrance qualification), specializing in Mathematics and Computer Science, grade: 1,1

Professional experience

Software Engineer / Bioinformatic Scientist, *Limbus Medical Technologies*
Rostock, 02/2020 – now
- Enhance inhouse Next Generation Sequencing bioinformatic pipelines
- Design, test & implement new features for internal software
- Closely collaborate with product management on future requirements

Bioinformatic Scientist, *Centogene***, Rostock/Berlin & Remote, 01/2015 – 01/2020**
- Implemented bioinformatic pipelines for genome data analysis
- Designed complex software systems around domain-specific bioinformatics tools
- Optimization of external & inhouse tools
- Setup automatic deployment & testing infrastructure

Software Engineer, *Supenta***, London & Remote, 04/2014 – 12/2014**
- Software Engineer #2 in a hardware startup with great influence on product and software desgin
- Implemented an Android App which communicates (NFC) with an external device
- Adapted and enhanced MCU firmwares of that device
- Setup of the test and build environments

Student Research Assistant, *Technische Universität Berlin***, 05/2012 – 03/2013**
- Implemented various tools to enhance protein structure prediction software (bioinformatics) including development of new algorithms
- Conducted scientific experiences and prepared results for publication
- Used broad variety of technologies and tools including Perl, Python, PHP, Data Visualizations tools, High-Performance Computing

Software Engineer, *Anevia S.A.***, Paris, Spring & Summer 2011 (two-tier internship)**
- Developed tools to test DVB cards and corresponding Linux drivers
- Developed a Selenium plug-in for automated website testing, entered feedback-loop with

---

1   German grades range from 1.0 ("very good": an outstanding achievement) to 4.0 ("sufficient": still meeting the requirements). 5.0 means "failed/below the requirements".

end users, contributed to open source project (Bachelor's final project)
- Worked "full-stack" using Python, JavaScript, C, Testerman, Testlink

Student Research Assistant, *Hochschule Saarland (University Saarland),* **05/2011 – 06/2011**
- Developed a web service to control Lego Mindstorms NXT robot remotely
- Implemented an agent-oriented communication pattern using Java on client and server side

Software Engineer, *ROBERT-KOCH-INSTITUT,* **June 2009**
- Implemented a tool to read and analyze DNA files generated by a sequencer
- Worked through the specification in order to understand file format and used C++/Qt to insert my implementation into the existing tool chain

Volunteer, *L'Arche d'Aigrefoin,* **France, August 2007 – July 2008**
- Worked and lived with mentally disabled people

Random stuff, 2004 – 2007
- Website development/homepage design for small businesses, LAMP administration
- Various vacation jobs

Software Development Skills

- Operating systems: *NIX (I am a Linux-Guru/CommandLine-Ninja), Windows
- Experienced in software development techniques like agile development and TDD
- Adept of the *Automate-everything* and *Deploy-with-one-command* cultures
- Programming languages: Android, BASH/Shell, C/C++, CSS, Haskell, HTML, Java, LaTeX, Matlab/Octave, Perl, Prolog, Python, PHP, R, Ruby, SQL, UML
- Experienced in system administration (LAMP, shell scripting, backup management, deployments, etc.)
- Known software/tools: office suites, IDEs (Eclipse, Code::Blocks, IAR Embedded Workbench), version control systems (svn, git, mercurial), build management (maven, ant, Make), remote collaboration tools (Asana, Evernote, Trac, Redmine, Gemini, Gitlab, Github, JIRA)

Languages

- German: native speaker
- English, French: fluently
- Russian, Spanish: absolute beginner

Other interests and hobbies

- Sports: aikido, jogging, sailing
- Literature and magazines: world literature, novels, *Die Zeit, Le Monde diplomatique*
- German and international politics
- Traveling: mostly in France, Scandinavia, Eastern Europe