

# Roman Baumgaertner

## Technical Leader – Principal SW Engineer

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### QUALIFICATIONS PROFILE

#### Leadership and Management

- Leadership and team building
- Project Management
- Process Improvement
- Motivator
- Facilitate sale events
- Proven ability to work concurrently on multiple projects

#### Technical

- Requirement/Specifications
- Architecture/Design
- Coding/Debugging
- Integration/Build
- Quality Assurance
- Performance Tuning
- Deployment
- Triage
- Mobile Platforms
- Networking
- OOO/Design Pattern
- Agile/Scrum
- Data Science/ML

#### Summary of Experiences

- Successfully released with University Berkeley the largest distributed seismic network for earthquake early warning
- Co-Founder and technical lead of a Deutsche Telekom Internal platform (AthenaConnect platform) which was approved from Deutsche Telekom's internal startup support for separate venture spinoff
- Presentation of a social sport service application based on AthenaConnect at the Cebit 2014
- B2B2x organization support which lead to a successful partnership with Voxeo/Tropo
- Implemented a mobile prototype for T-Mobile which helped to close a multi million Dollar contract with Walmart
- Managed and lead projects across geographical boundaries
- Participated in T-Mobile's sales events and supported sales team with technical expertise
- Participated in Android community support which resulted in being in the top 10 Android forum contributor list in the year 2009
- Mobile expert with understanding of mobile platforms like Android, iPhone, Windows Mobile, WebOS, Tizen
- Experienced in the use of agile approaches, Test-Driven Development and Scrum as well as waterfall approach

### ***PROFESSIONAL EXPERIENCE***

<b>Aug 2016 to June 2018</b>	<b>Interim Lead Manager - Deutsche Telekom, Inc T-Labs</b> T-Labs Mountain View Management
	<ul style="list-style-type: none"><li>• Managed a small team of engineers on a variety of projects ( Cognitive Technology demonstrator, Earthquake Early Warning)</li><li>• Lead collaboration efforts with T-Mobile US building a reference architecture of an IoT edge gateway</li></ul>

<b>Oct 2011 to June 2018</b>	<b>Technical Leader, Mobile Platforms - Deutsche Telekom, Inc T-Labs</b> Architecture/Design/Development, Project Management
	<ul style="list-style-type: none"> <li>• Developed Backend Architecture for a Earthquake Early Warning System in collaboration with University of Berkeley running multiple microservices</li> <li>• Co-Founder of an T-Labs internal cloud platform (Athena Connect) using CaaS technologies and other enabling platforms.</li> <li>• Presented Social Sport Platform solution based on Athena Connect at Cebit 2014. Platform received a lot of interests from professional sport teams</li> <li>• Architected platform from scratch using the Python/Django web framework. Supported features are Identity Management, SSO, CaaS (over Tropo), DataPush (custom Tornado), Social Network Provider support</li> <li>• Mobile client architecture/development based on Android platform, Hybrid application approach</li> <li>• B2B2x organization support by actively evaluating CaaS solution providers like Twilio and Tropo. Effort lead to partnership with Tropo</li> </ul>
<b>Development</b>	Django/Python, JSON, Android, HTML, JS, jQuery, Tropo, Twilio, Jenkins, AWS-EC2, Git/ GitHub, Tornado DataPush, Redis, SSO, Social Network Provider, Java Spring Framework, Kafka, MongoDB, MySQL, Microservices, ActiveMq

<b>Jan 2009 to Sept 2011</b>	<b>Sr. Mobile Engineer/Project Lead – T-Mobile</b> Architecture/Design/Development of applications on Android/Windows mobile platforms.
	<ul style="list-style-type: none"> <li>• Project team lead for a Dynamic Application Loading framework based on Android (responsible lead architect and overall lead of the project)</li> <li>• Deutsche Telekom and ChooChee Startup engagements. Developed an international dialer and messaging application (Revvl on Android Market) for the Startup ChooChee.</li> <li>• Engaged with customers to gather their requirements and provide end to end solutions.</li> <li>• Application development on T-Mobile's AppPack and MyAccount application for the Android platform</li> <li>• Security Framework extension for Android platform. Development done on framework level</li> <li>• Proof of concepts prototypes for Video conferencing and P2T using SIP signaling on Android</li> <li>• Android Community support, Android Meetups</li> <li>• Windows Mobile application development (Amazon MP3 application)</li> </ul>
<b>Development</b>	Android SDK and framework, Eclipse, MotoSDK, Java, Windows Mobile, Microsoft Visual Studio, Asterisk PBx, SVN, Git, Maven, Jira, Openfire

<b>April 04 to Nov 08</b>	<b>Software Engineer – Motorola PCS-Division (SV)</b> Architecture, design of a middle layer framework optimizing transport selections on mobile devices (Cellular voice, Voip, PS over GPRS, Wifi, WiMax, ...)
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	<ul style="list-style-type: none"> <li>• Architecture, design, development, testing of seamless mobility concepts in Wireless networks supporting voice and data traffic.</li> <li>• Implementation of WiMax plugin in Seamless Mobility Framework</li> <li>• Implementation of a MIP supporting plug-in to enable transport switch between cellular, Wifi, WiMax packet networks</li> <li>• Implementation of IM plug-in to enable chat and VoIP (used libjingle from Google/GoogleTalk)</li> <li>• Integration and test support for IPTV project (streaming on mobile device using the hybrid SIP/RTSP solution)</li> <li>• Performance improvement of Calling Application</li> <li>• Involved in CDMA TAPI API development</li> </ul>
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<b>March 03 to March 04</b>	<b>Software Engineer/Entrepreneur– PBx-Project (Startup)</b> Development of an open source PBx system running on LINUX/Windows using Dialogic Voice Boards.
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<b>June 97 to October 02</b>	<b>Software Engineer – NGN Project</b> <b>Alcatel Germany, Stuttgart/Alcatel USA, Milpitas</b> Development of Alcatel 7510 Media Gateway Gen2: New Hardware components were introduced to be more efficient in transmitting voice traffic. Furthermore concepts of redundancy/synchronization were developed to offer stable call preservation.
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## ***TECHNICAL SKILLS/OTHERS***

<b>Programming languages</b>	Java, C/C++, Objective-C
<b>Mobile Platforms</b>	Android, WebOS, Windows Mobile CF, iOS, Motorola Linux-Java
<b>Script languages</b>	Python, Perl (CGI,Expect), Shell Scripts, Tcl/Tk, R
<b>Web technologies</b>	HTML, JSON, REST, JAVASCRIPT, DJANGO, Tornado, XML, Apache Tomcat, Jetty, Macromedia Tools, Adobe Photoshop
<b>Cloud</b>	AWS, GCP, Firebase
<b>Data Science/Machine Learning</b>	Tensorflow, Keras, Jupyter, NumPy, SciPy, Pandas, Matplotlib, Scikit-learn, R
<b>Enabler Protocols</b>	SIP, XMPP
<b>Database technologies</b>	MySQL, SQLite, Redis, MongoDB, CouchBase
<b>Operating Systems</b>	UNIX-Solaris, Linux, MacOS, Windows, IBM-MVS,VAX/VMS
<b>Telecom/ Networking</b>	TCP/IP protocol family, IPSec, MEGACO,MGCP,SIP,H323, Routing protocols (RIP,OSPF,BGP), SNMP,ATM,QoS,GSM, RTP/RTCP, Cellular networks (CDMA, GSM, UMTS), WLAN (802.11), WiMAX (802.16)

<b>Tools</b>	Git/SVN, Clear Case, GNU-Development tools, Ethereum, Cloud, Together UML, Cellular Network Simulator, Cellular phone flash tools
<b>DevOps Tools</b>	Jenkins, Vagrant, Docker
<b>Build/Testing</b>	SVN, Git, Gradle, Maven, JUnit, Jenkins
<b>Documentation</b>	MS Word, MS Power Point, MS Excel, LATEX
<b>Languages</b>	German, English, French

## ***EDUCATION***

**1997** Masters Degree in Computer Science -- University of Wuerzburg/Germany, 1997

**1997** Additional Professional training in:

**to**

**2018**

- Programming with Posix
- Java , JSwing, JSP
- Data structures and advanced C programming
- HTML
- Perl, CGI-Programming
- UML
- basic/advanced classes in TCP/IP/QoS in IP networks
- Concepts of methodological testing
- Concepts of Cellular networks (CDMA, GSM, UMTS)
- Basic Concepts of WiMax
- IP Multimedia Subsystem
- Secure programming
- Agile Software Development
- WebOs training at Palm
- Android sensor
- Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship
- Business: New Venture Finance Certificate
- MongoDB M101 Certificate
- Nano Degree: Deep Learning on Udacity Certificate
- AWS Data Architect Certificate