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Experience and Projects

10/2014...now

Software Development Engineer

<https://www.amazon.com>

Technical Lead for the hybrid core of the mobile shopping app. Mentor and trainer for developers, talking on internal conferences, establishing the team's SCRUM process. Member of the Mobile Architecture Board for the mobile shopping app.

2011...now

Software Architect, Software Designer, Product Manager

<http://www.gpsessentials.com>

Architecture, Design and Implementation of "GPS Essentials", a 5.6 million downloads Android off road navigation app. Written every single line of code, from the initial prototype to the latest release. Supporting users and gathering their feedback.

GPS Essentials is an Android app built with Java and OpenGL ES for rendering. The app makes heavy use of device sensors and the camera. The app can synchronize data with mapfinity.com, a web service that runs a GWT fronted on GAE.

01...02/2013

Software Architect, Software Designer, Product Manager

XClinical GmbH, München

Design and Implementation of an Android app that integrates the contacts app with an existing web service. The goal of this short project was to use Android tablets on marketing events to collect (prospect) customer data. This data is then sent to a server for processing. Worked with marketing and internal development to define requirements, provide test releases and fix bugs.

08/2011...01/2013

Software Architect, Software Designer

XClinical GmbH, München

<https://mdr.imise.uni-leipzig.de>, <https://github.com/tmfev/MDR>

Architecture, Design and Implementation of a metadata repository (MDR) based on ISO11179 using GWT and JEE/Hibernate/JPA.

The goal of this project was to setup a service to maintain meta data for clinical and epidemiological studies. The major challenges were how to map the ISO11179 meta model to the domain model, import existing meta data from terminologies and wrap the complexity of the domain into a user interface. Technical lead and involved in decision making about the technologies to use. Setup and maintain the SCRUM process as the SCRUM master. Refine requirements with customers across participating Universities during meetings and workshops.

05...08/2011

Software Architect, Software Designer, Product Manager

Roland Berger Strategy Consultants, München

Architecture, Design and Implementation of a mobile client for Sharepoint targeting iOS, Android and Blackberry. Designed a hybrid app that runs GWT inside PhoneGap. The app contacts a Sharepoint server, authenticates and presents reporting data with drill-down capabilities.

03...05/2011

Software Architect, Software Designer, Product Manager

TechnoCOM Wireless, San Diego

Architecture, Design and Implementation of a mobile application to record GPS QoS field data. Designed and implemented an Android app to collect data from multiple devices and send this data to a web service. The work comprised refinement and constraining sensor data, define a web service interface and support the field teams.

03/2010...03/2011

Software Architect, Software Designer, Project Manager

MAG GmbH, München

Architecture and Design of a server application based on Microsoft SharePoint 2010. The goal of this project was to setup and operate a service to control cost saving initiatives in a global enterprise (DAX30 company). Refined requirements with the customer, designed and implemented a web frontend in Silverlight that was hosted on a Sharepoint server. Defined requirements to setup a multidimensional database for BI post processing. Finally, handed the project to an offshore team for maintenance.

2006...2007

Software Architect, Software Designer

MEC Technologies, Cupertino

Design and Implementation of a load test infrastructure for a video search service. In the pre-release phase of the product, ensured that a mid-scale web service (load balancer, multiple web servers) meets performance requirements. The goal was to develop an automatic test harness to simulate end user interaction with the service. Setup of test goals, trained and instructed an offshore development team.

10/2002...2010

Software Architect, Software Designer, Project Manager, Product Manager

SOFTCON AG, München

- Architecture and Design of a rich client/server application using RCP, Windows Mobile devices, JBoss
- Design and implementation of a rich client user interface using .NET
- Integration of a large-scale client/server-application using PL/SQL, Oracle AQ and Web Services.
- Design and implementation of a large-scale mobile client/server-application using .NET and J2EE.

Led a team of 8 developers (4 on site, 4 near shore), established and maintained a SCRUM process, collected customer feedback and was the lead architect for the company's strategical project.

06/2000...09/2002

Senior Software Engineer, Product Manager

Nets AG, München

- Design and implementation of a large scale WAP/Web application
- Analysis and design of a graphical user interface
- Implementation and rollout of a Web/SMS application

- Design of an XML-based transport protocol in the GSM environment
- Implementation of Quality Control Processes for a large scale Java WAP/Web application running on Solaris/Weblogic/Oracle
- Design and implementation of a Java test tool for WAP/Web applications

1994...2000

Software Design Engineer

Basler AG, Hamburg

- Analysis: Using the Ethernet for high bandwidth image transmissions.
- Design and implementation parts of an inspection system on Windows 3.x using MFC.
- Development of a client interface for an image capturing device driver on Windows NT 4 using ATL/COM.
- Integration of Rational Rose into the development life cycle of existing and new projects.
- Design of a test bed for automated testing of COM components.
- Development of parts of an image processing library on Windows 9x/NT using ATL/COM, targeting C++, VB, JavaScript, VBScript.

1990...1994

Research Assistant

ITLR, Institute for Thermodynamics of Aeronautics Engineering, Universität Stuttgart

- Development of a data-processing and visualization application for a transient recorder on Windows 3.x
- Development of a GPIB-device control application on Windows 3.x using CWEB (C, TEX).
- Development of embedded device control systems on a MC68HCxx.

1986...1990

Software Design Engineer (part-time)

Aeroform Lüftungstechnik GmbH, Mannheim

- Development of book-keeping software on AmigaOS in C
- Development of word-processing software on AmigaOS in C
- Porting of book-keeping software to DOS

Education

1998

Universität Stuttgart, Baden Württemberg

Academically trained engineer: Aeronautics Engineering

Thesis (I): Development of a user interface for TeX.

Dissertation (II): Development of a generic user interface for machine control.