

Overview of Expertise

- Github Profile: github.com/flyandi
- Leading a team of engineers, designers, and non-technical staff
- Leading high impact products and software systems affecting million of consumers and customers in various industries.
- Full stack hands on engineer
- PHP / NodeJS / ES6 / React and React Native
- Major contributions and involvement in the Open Source Community
- Framework, Content Management Systems- Design and Development
- Conception, Prototyping, Programming and Engineering of Web Applications
- App Development on Android and iOS, Cordova and React Native
- Graphical User Interface Conception, Design and Development
- Security Software Development, e.g. Firewall, IDS, IPS, etc.
- Enhanced Network Programming (Intrusion Detection Systems, Packet Drivers)
- Windows Kernel and Device Driver Development
- Manufacturing Execution Systems
- Wide knowledge of manufacturing processes, equipment modeling, test procedures and other project management related procedures
- Website Design and Development
- User Experience Web development and testing
- Alexa Skill Development

Programming and Years Experience

PHP (15+ years), PHP OOP (14+ years)
JavaScript (16+ years)
XML/JSON (11+ years)
Delphi (10+ years)
C/C++/AVR (8+ years)
Java (6+ years)
HTML/CSS (16+ years)

SCM / VCS

GitLab incl. GitLab CI
Jenkins
Subversion

Open Source

Mazda Infotainment SDK
PHP-Helpers (> 18k users)
Various contributions

Databases

MySQL / PostgreSQL
ORM (Doctrine, etc)

Frameworks

Lumen / Laravel
(mg)framework (Proprietary Framework)
Wordpress
jQuery / Semantic UI / Polymer / Web
Components

Other

Docker, VirtualBox, etc
UAV, Arduino, Hardware Design, IoT, AVR
Adobe Photoshop - Fireworks
Microsoft Office: Excel, Word, Powerpoint
FFMPEG
LAMP on Linux/Windows
Server Configuration and Management

Employment History

Development Manager, New Initiatives / Premier Agent Program Zillow Group; January 2015 - Current

- Principal architect for the Premier Agent Concierge System (PAC).
- Responsible for the creation and leadership of the PAC Team that includes Developers, QA, DevOps and Project Manager.
- Involved in the day-to-day activity including continuously development of features, stability efforts and providing technology guidance on implementations.
- Responsible for architecting and implementing the PAC infrastructure on Amazon AWS using EC2 Container Service as well building environments for developers in order to engineer software within production like parameters.
- Responsible for developing and implementing Continuous Integration, Continuous Testing, Continuous Deployment and Continuous Delivery strategies for a high performance and high uptime infrastructure.
- Responsible for creating and maintaining mission critical workflows and processes through Scrum (Sprints) and Agile (Kanban) utilizing JIRA.
- Created and deployed multiple new initiatives including the primary internal ordering management system for the entire Sales Department.
- Successfully scaled the PAC business from 2m revenue to 300m in revenue in less than one year using the above custom build software.
- Winner of Zillow's company wide innovation week, 6 times.
- Mentor and Speaker on various Zillow Events.

Contractor – Custom Technologies for Concept Cars Five Axis; June 2015 – December 2015

- Built interactive shake game using a 3rd generation Prius for Toyota that was featured at various events throughout Southern California. The interactive game was built running a custom Webkit view on a Buildroot powered RaspberryPi.
- Built a "Possessed Themed" car based on a Scion iA that was featured nationwide including during SEMA 2016 and various media outlets. It was built primarily to promote the TV Show "Outcast" (SkyBound Entertainment, The Walking Dead) as well introducing the Scion iA to the American Market. I built the entire Animation Software, Hardware Control Systems as well individual firmwares controlling the various parts of the car. <https://www.youtube.com/watch?v=SsojJFHFwAk>
- Built and integrated the "Game Clock" (Hardware / Software) for the Los Angeles Clipper Lexus FRS (<http://www.nba.com/clippers/lexusraffle/>)
- Built the control systems and LED controllers for the 2016 Pioneer Scion tC that was featured during CES and was built to promote Pioneer's NEX audio and video systems. The highlight was that the car changed colored based on what kind of mobile phone was plugged into the head unit (Android / iPhone). <https://youtu.be/O1g8F2yOoFI?t=217>

Andreas (Andy) Schwarz
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**Technology Manager, Site Manager, Strategic Development
LawInfo.com, a Thomson Reuters Business; August 2013 – January 2015**

- Took principal role as technology advisory within LawInfo and other Thomson Reuters Businesses
- Primarily responsible for new software developments including prototypes and proof of concepts for the Legal Industry within Thomson Reuters, focused in different areas such as Lead Automation, Lead Acquisition, Consumer Marketplaces, Legal Forms, Legal Certification and other legal-related areas
- Successfully built and lead a new team for Strategic Development after acquisition
- Leading on-going integration efforts of Lead Counsel Bar Verification Technologies with Google
- Successfully integrated LawInfo Technologies into Thomson Reuters including leading the move of all our IT and Technology assets into a new data center
- Support of existing LawInfo Properties and Technologies
- Taking the leadership role in merging a recent acquired business into the existing LawInfo Business
- As the Site Manager lead the entire business unit in corporation with the HR department including newly acquired companies

Chief Technology Officer

LawInfo.com, Inc; August 2010 - August 2013 (Acquired by Thomson Reuters)

- Responsible for R&D and successfully developed and launched the following products:
 - LawInfo SiteBuilder with over 2000 active customers - Licensed to Home Depot and GoSmallBiz/Legalshield.
 - LawInfo.com – Redesign of current website and technical enhancements:
 - LawInfo Websites – Semi-custom Websites for clients, utilizing the Wordpress Platform.
 - LeadCounsel.org – Attorney Rating System and profile web application
Developed proprietary technologies and algorithms to verify an Attorney's credentials and certifications
 - LawInfo App Hub – Unified Application Platform for LawInfo Web Products:
LawInfo Lead Call – Attorney Lead 2 Voice (Call) using Twilio
LawInfo Voice Text – Mailbox Messages Transcription Service
 - API Interface for LawSmart.com
 - LawInfo Lead Call – Lead Notification Service for Attorneys
 - LawInfo Voice to E-Mail – Voice Mail Transcription Service
 - Client gateways and Google specific products
- Management of over 25 projects including work with larger vendors and new client facing products
- Managed Technology Team including: Software Engineers and Designers

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Technical Lead - Programming, Application Development, SEM/SEO

Consumer Experience (CPO- Conversion Path Optimization)

The Search Agency, Inc; April 2008 – May 2010, IC May 2010- July 2010

- Planned, directed and developed projects and applications for mid to large companies
- Responsible for implementation and execution of Test Campaigns using the SiteSpect Platform
- Developed Web and Facebook applications

Project Manager - Manufacturing Execution Systems (MES), Total Productive Maintenance (TPM)

Solarworld Industries America (affiliate of Solarworld AG Germany); May 2007 – April 2008

- Planned and directed over 14 small to mid-size projects
- Organized and established offline data collecting system for equipment to monitor data online (TPM related). Programmed a web interface solution to display the collected data
- Instructed co-workers and operators in using TPM related tools
- Designed and maintained OEE reports
- Worked in a team of 5 persons to achieve critical project milestones
- Conceptualized and programmed equipment device driver framework using C++, Delphi and C# and designed concepts for integrating different types of equipment to a MES solution

Consultant - Manufacturing Execution Systems (MES)

Deutsche Cell GmbH (affiliate of Solarworld AG Germany) April 2007 – May 2007

- Evaluated OEE runtime software solution
- Designed and executed critical test scenarios and reported to the board about the evaluation
- Trained co-workers through the process of evaluation. (Transfer to the United States)
- Transfer to Solarworld Industries America in Camarillo, CA in May 2007

Head of Production Control Department, Project Manager

Roth&Rau AG February 2006 – March 2007

- Initiated and strengthened the concept and prototyping of the ORBiT MES (Main Components, Interfaces and other Modules) and executed software development
- Supervisor for a team of 5 software developers to build the product software. This software is an integral part of the Roth&Rau Turnkey solutions for Solar Cell Manufacturing and has successful installations in Spain, Korea, China and Taiwan
- Trained in field technology, production and programming

Software Developer

Roth&Rau AG September 2005 – February 2006

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- Designed and programmed an application which allows for tracking carriers and materials between different processes and automation equipment including logical handling system and graphical user interface (touchscreen based)
- Evaluated and established an equipment interface library framework in cooperation with the Fraunhofer Institut for Solar Energy, Freiburg, Germany (Fraunhofer ISE)
- Overhauled a prototype and release version of this library and integrated the library into an Roth&Rau SiNA XS PECVD equipment and AMB Automation equipment
- Conceptualized and programmed the GlobalSys application for Preventive Maintenance Monitoring
- World travel to train clients in over 60 countries including: USA, Korea, Taiwan, Singapore, China, India and Dubai

Software Developer- Contractor

Secutron GmbH February 2005 – September 2005

- Remodeled and updated the system software for the baggage handling system at the International Airport of Dresden, Germany

Executive Software Developer- Contractor

Securepoint GmbH, October 2002 – January 2005

- Development of the Securepoint Personal Firewall
- Assembled different types of IT-security related end-user products with focus on Windows 2000/XP/2003 Kernel Architecture
- Conceptualized different graphical user interfaces for easy firewall configuration

- Evaluated and organized new products and ran the product management
- Established end-user customer service for the resulting software products
- Collaborated and managed a team of 3 persons

Co-Founder and Executive Software Developer

GateProtect AG, August 2001 – October 2002

- Conceptualized and programmed the GateProtect Firewall Configuration Client which is an interactive configuration utility for the GateProtect Firewall System

Entrepreneur Initiatives

Alexa Skill Developer

November 2016 - Current

- Architect of a flexible and scalable Alexa Skill development and deployment framework including instant Alexa skill creation for business and marketing purposes.

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- Early stage adaptor and Amazon named key person for Alexa Development.
- Large scale deployments of Skills for clients such as Centurylink and Digital Reality.
- Creator behind the Riley skill – a medical skill that monitors the sugar level of Riley, a 6 year old girl diagnose with type 1 diabetes.

Sole Founder, Developer, and Designer

DragonCommander UAV Management Software via FPVTools.com

April 2012 - Current

- Design and Development of Core Technology

Sole Founder, Developer, and Designer

KeepingBabyBusy.com, MobilesiteGuru.com , BabyNotify.com

February 2008- Current

- Designed and Developed Core Technologies, Framework and Website Design
- MobilesiteGuru.com developed in 2008, BabyNotify.com in 2010 and KeepingBabyBusy in 2013.

Education

Information Technology Technical Diploma (Equivalent to Master's Degree in America)
Industrial Chamber of Commerce of Germany, 2003

German University Entrance Qualification (Equivalent to College Degree)
Poly - Technic High School of Luebeck, 1997-2001

Spoken Languages

German (Native)
English (Fluent)