ANTON OKMYANSKIY

Software Architect & Engineering Director

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Profile

Senior software project leader and solution architect. 12 years at Cisco. Mobile and networking industry. High-performance internet services with millions of client devices. From product vision to implementation and deployment. Technical direction for teams as large as 60 engineers. Architecture for $50-250 mln projects for customers such as AT&T and Comcast. Prolific inventor with 20+ patents.

Skills

Technical

14 years of engineering experience. 20 full product release lifecycles. Internal product architecture and customer deployment architecture. Author of 6 industry standards.

Team Direction

Technical direction for teams of 60 engineers, several business units and external partners. Release planning and engineering processes setup.

Product Management

Customer interactions. Product requirements. Technical pre-sales. Partnerships. RFPs. Competitive analysis. Marketing collateral. Technical acquisition analysis.

Technologies

Java (certified)	JavaScript, HTML	Sockets
TR-069 & 3GPP Standards	SNMP	Oracle Berkley DB
HTTP, REST, JSON	DNS, DHCP	TLS, SSL, PKI, X.509
SOAP, WSDL, XML	TCP, UDP, IP	Solaris, Linux, Windows

Specialties

- Systems for self-optimized mobile networks (SON)
- 3G & LTE Femtocells, Small Cells
- Home security & automation systems
- Web services & applications
- Remote device management (RG, STB, VoIP, HNB, OSGi, DOCSIS)
- High-scale, high-availability & distributed systems
- Turnkey systems with software & hardware
- Custom databases
- End-to-end security

Experience

Cisco Inc.   Vancouver, Canada   2008-Present
Solution Architect, Mobile Internet Technology Group

- Architect for products and solutions in the areas of 3G & LTE Femtocells, Small Cells, Home Security and Home Automation.
- Principal architect for software products delivered by a team of 60 engineers (Java-based servers, Web UIs, HTTP / REST / JSON / XML web services, TR-069, XMPP, embedded clients).
- Architecture for customer deals of $50-250 mln from concept to implementation and deployment.
- Led architecture for the world's largest UMTS Femtocell deployment in AT&T. Oversaw development of a large distributed system for self-optimized access point management, which exceeded 99.999% availability in production over several years.
- Directed remote management system architecture for AT&T Digital Life project for home security & home automation market. (TR-069, XMPP, OSGi, 3G, HPAV)
- Frequent customer communications, including pre-sales, deployment architecture & feature requests
- Expert on zero-touch activation, provisioning & management of devices on mass scale (TR-069, TR-196). 3GPP self-optimized network (SON) technologies.
- Coordinated engineering activities across internal teams, customer stakeholders and partners. Defined requirements across several product business units and partners.
- Participated in product management: roadmap commits, ROI models, RFPs, marketing collateral.

Cisco Inc.   Boxborough, MA   **2000-2008**
Technical Leader, Network Management Technology Group

- Architect for a market-leading product (BAC) for device provisioning & management. Deployed at over 160 service providers worldwide. Handling over 50mln devices in just one deployment at Comcast.
- From product requirements to execution. Technical product roadmaps, engineering specifications, team leader for a group of 25 engineers.
- Individual contributor responsible for development of innovative database implementation. See Publications.
- Competitive analysis, acquisition evaluations, pre-sales, RFP responses, customer presentations, partnership development.
- Primary Cisco representative at Broadband Forum, where co-authored a number of industry standards for device management. Author of syslog standard. See Publications.

Process Software Corp   Framingham, MA   **1998-2000**
Software Engineer

- Collaborated with CTO to define architecture for a new CampusWorks product
- Designed & developed web UI, database layer and reporting capabilities for DHCP / DNS server products (Java, Perl, HTML, HTTP, AJAX, JavaScript, LDAP)
- Co-developed "DNS Doctor" SaaS platform with one other engineer (C++, MS SQL Server)
- Developed UI app for real-time reporting of server statistics (SNMP, Java, Perl, HTML, JavaScript)
- Performed expert-level tuning of Netscape LDAP directory schema for high performance

PrimeTronix Inc   Framingham, MA   **1994-1995**
Founder

- Created, marketed and ran multiple e-commerce web sites
- Developed custom order workflow system with payments, invoicing, shipping & support (Perl, HTML).
- Marketed the sites on search engines (SEO) & with email newsletter
- Managed company accounting

Patents

US6978447 - Method and System for Efficiently Interpreting a Computer Program

US7165129 - Method and Apparatus for Self-tuning Transaction Batching

US7421542 - Technique for Data Cache Synchronization

US7600003 - Method and Apparatus for Dynamically Configuring CPE

US7975058 - Systems and Methods for Remote Access of Network Devices

US7505464 - Identifying a Home Gateway Using Network Traffic Sniffing

US7586905 - Method for Device Service Activation Using a Discovery Mechanism

US8086233 - Detecting cloning of network devices

US8121598 - Scrambling code allocation and hand-in for wireless network

US8175005 - Coordinated neighbor discovery of radio access point devices

US8233481 - Access Class Based Picocell Policy Enforcement

2007/0097956 - Device Service Activation for VoIP Service

2008/0240226 - Record Compression Using Incremental Reverse Templating

2009/0318193 - Provisioning of Information in a Cellular Network

2011/0021192 - Access Class Based Picocell

2010/0210280 - Radio access point location verification using GPS and 3G data

2012/0088482 – Automated LAC assignment for enterprise Femtos

Five additional patents-pending disclosure at USPTO

Three additional patents in process of being filed by Cisco

Standards	Broadband Forum: TR-069 Amendment 1: CPE WAN Management Protocol (CWMP) v.1.0. Co-author.
	Broadband Forum: TR-106: Amendment 1: Data Model Template for Home Networking Devices. Co-author.
	Broadband Forum: TR-098 Amendment 1: InternetGatewayDevice (IGD) Data Model. Co-author.
	Broadband Forum: TR-131: ACS Northbound Interface (NBI) Requirements. Co-author.
	Broadband Forum: 56 formal contributions submitted & presented. Author and lead co-author.
	IETF: RFC 5426 - Transmission of Syslog Messages over UDP. Author / editor.
	CiscoLog. Internal company-wide logging format standard. Author.

Publications & Talks	Light Reading SuperWebinar. "*BroadbandHome: Automating Remote Management*". Feb 2007. Speaker and panel member representing Cisco's Connected Home strategy.
	Dr. Dobbs Magazine. "*The unglamorous database option that works*". Dec 2002. Article about developing a high-performance transactional system with Berkeley DB database.
	DECUS Conference. Talk: "*Case study in directory enabling an application*". Nov 1999.

Education	**Babson College**	Wellesly, MA	**1995-1999**
	BS in MIS (Management Information Systems)		

- 4.0 GPA in major (3.83 overall)
- 14 MBA curriculum courses such as accounting, finance, management,
- marketing, law
- Two awards for winning math competitions
- Paul F. Greene Telecommunications Research Award