



KUNDAN SINGH

SOFTWARE ENGINEER
TECHNOLOGY LEADER

ABOUT ME

Exceptional software engineer and technology leader with exemplary blend of rapid prototyping, system building and domain expertise.

Self-motivated. Hands-on. Real-time communications, cloud, mobile and distributed systems.

STRENGTHS

- Quickly create robust software systems and proof-of-concept implementations for even complex ideas and inventions.
- Drive projects single handedly from early ideas to completion including cloud deployments, operations and project reports.
- Provide technical guidance on emerging areas including critical and quantitative evaluations of projects.
- In depth knowledge of audio and video communication technologies for Internet, web, mobile and cloud.

LOOKING FOR...

The next career upgrade · software architect, engineering leader · solve difficult problems in software systems · advance my expertise to more emerging areas · apply my skills to touch more lives

Open to software consulting for projects in my technical domain

RED FLAGS

Reluctant to work without freedom to innovate · to relocate immediately

EXPERIENCE (18yr)

2016 Koopid.io

FOUNDING ENGINEER

Mobile · B2C · Stealth Mode Startup

2012 – 2016 Avaya Labs

RESEARCH SCIENTIST

15 software projects · 10 systems papers · 9 patent applications · collaboration, cloud, web, video, mobile, enterprise, security

2011 Twilio, Emergent, BitTorrent

SOFTWARE CONSULTING

Intensity Cloud Technologies · Mobile, web to phone, voice quality, web video, E911, cloud, peer-to-peer, video, streaming

2009 – 2010 6Connex

Lead Software Engineer

2008 – 2009 Tokbox

Senior Software Engineer

2006 – 2007 Adobe

Senior Computer Scientist

2006 Bell Labs/Lucent

Member of Technical Staff

1999 – 2006 Columbia University

Research Assistant

1997 – 1999 Motorola

Senior Software Engineer

EDUCATION

2006 Columbia University

PhD, MS (Computer Science)

GPA 4.06 on 4 · 15 papers · 3 patents · 35 projects mentored · best TA award · Advisor: Henning Schulzrinne

1997 BITS, Pilani, India

Bachelor of Engineering

GPA 10 on 10 · university gold medalist · honors

SKILLS

PROGRAMMING

Python, JavaScript, C/C++, Java, ActionScript, Tcl, PHP, Perl.

DOMAIN

Web, cloud, communication, real-time, mobile, collaboration, voice, video, messaging, presence, telephony, scalability, reliability, performance, voice quality, enterprise, security.

TECHNOLOGIES

SIP, VoIP, WebRTC, WebSocket, HTML5, Flash Player, RTMP, XMPP, RTSP, RTP, SDP, REST, NG911, PSAP, P2P, PSTN, H.323, DNS, Windows drivers, OS X audio, browser plugin, chat bots.

SYSTEMS AND TOOLS

MySQL, gcc/make, Tomcat, Apache, Cordova/PhoneGap, Flex Builder, Eclipse, IntelliJ, VC++, Xcode, LAMP, git, svn, FMS, Red5, SER/Kamailio, Freeswitch, CGI, Servlet, AWS, Google App Engine, Chrome Apps, wit.ai.

LINKS

HOMEPAGE

<http://kundansingh.com>

For details on projects, papers, demo videos.

OPEN SOURCE

<http://github.com/theintensity>

<http://theintensity.com/demo.html>

TECHNICAL BLOG

<http://blog.kundansingh.com>

STUDENT PROJECTS AND IDEAS

<http://myprojectguide.org>