

SANDEEP ZECHARIAH GEORGE K

SUMMARY

- 8.5 years of prime industrial experience in designing and developing world-class products.
- Interdisciplinary approach; converging agile practices along with design thinking and modern cloud-based software development.
- Hacker / Tinkerer in electronics prototyping and digital fabrication to develop innovative solutions.
- Speaker at various international venues on technology, showcasing and demonstrating new products and solutions.
- First Class and Distinction in Bachelors and Masters level education.

EDUCATION

2017* PhD student in COMPUTER SCIENCE,
University of Calgary, Alberta, Canada
*Started September 2017

2015 Master of Science in HUMAN COMPUTER INTERACTION WITH ERGONOMICS,
University College London, London, United Kingdom
MSC WITH DISTINCTION (72.5%)

2007 Bachelor of Technology Degree in COMPUTER SCIENCE AND ENGINEERING,
Cochin University of Science and Technology, India
FIRST CLASS DEGREE (70.8%)

PATENTS AND PUBLICATIONS

USPTO No. 14/280393: Detecting Behavioral Anomalies and Patterns of
Individuals and to Normalize the Overall Results.

USPTO No. 14/031256: Predicting Spread of Content Across Social Networks.

USPTO No. 13/916775: Effective Method of Creating Seed Set for Viral Marketing.

(2014) [Real-time visualization and targeting of online visitors](#). Deepak Pai and Sandeep Zechariah George. Proceedings of the 37th international ACM SIGIR conference on Research & development in information retrieval.

(2018) Improving Edge and Texture Rendering in Mid-Air Haptic Systems. Sandeep Zechariah George, Ryan Peters, Sonny Chan and Lora Oehlberg). Position paper for “CHI 2018 Workshop on Mid-Air Haptics for Control Interfaces” at CHI 2018 in Montreal.

Note: I have taken part in various hackathons and other development experiences that are chronicled in my **portfolio** available online at sandeepzgk.com or as [PDF](#) download.

CERTIFIED QUALIFICATIONS

2013	Natural Language Processing	Columbia University
	Social Network Analysis	University of Michigan
	Gamification	University of Pennsylvania
2012	Certified Usability Analyst	Human Factors International

WORK EXPERIENCE

Sep 17 - Date	Grad Assistant-Research, University of Calgary, Alberta, Canada <i>Roles and Responsibilities:</i> To research in un-grounded haptic systems that enable people to touch, feel and manipulate soft objects in virtual reality. I am also involved in creating and leading an innovative agile (scrum) based research methodology for the [VT] ² research group at the University of Calgary.
Sep 17-Dec 17	Grad Assistant-Teaching, University of Calgary, Alberta, Canada <i>Roles and Responsibilities:</i> To assist in teaching and mentoring students in Introduction to Computer Science for Computer Science Majors I
Mar 16 - Sep 17	Principal Software Architect, WebCardio, Kochi, India <i>About the team:</i> WebCardio is a start-up attempting to revolutionize the world of healthcare in developing countries by bringing them affordable healthcare through the use of cutting-edge technology and a scalable cloud platform. <i>Roles and Responsibilities:</i> Build, design, develop and deploy the infrastructure for a scalable cloud platform, web interface and mobile application which can store, process and run algorithms on ECG data either live or as stored waveforms. Additional responsibilities include managing and leading the team for the product development in mobile, cloud and web development. Along with this, I was responsible for engaging the team in design thinking to enable development of a more customer friendly and accessible product. <i>Key Technologies:</i> JavaScript, NodeJS, Amazon Web Services including Lambda, DynamoDB , S3 and others.
Oct 12 – Jul 14	Researcher, Adobe Research Labs, Adobe Systems, Bangalore, India <i>About the team:</i> Adobe Research is a premier organization engaged in industrial research since the very foundation of Adobe Systems. It has been crucial in creating various technologies that have been critical to the success of Adobe and its products. <i>Roles and Responsibilities:</i> Developed strategic patented technologies, (a few of these are listed in the sections below) for Adobe Digital Marketing Cloud, and created visualizations demonstrating the technologies. My work involving creating strategic visualizations showcasing Adobe Lab's Technologies have been presented at various events including Adobe Digital Marketing Summit 2013 and Adobe Max 2013. A version of this has been adapted for use in Adobe Social, a social media marketing platform. <i>Key Technologies:</i> R, D3, Python, JavaScript, Apache Storm, Redis, HBase.
Apr 11 – Oct 12	Product Solution Developer, Adobe@Adobe, Adobe Systems, Bangalore, India & Ottawa, Canada <i>About the team:</i> Adobe@Adobe is a young team consisting of a small group of people spread across different offices in key Adobe locations across the world. The charter of the team is to create innovative solutions using Adobe's technologies to further the boundaries of its portfolio.

Roles and Responsibilities: Created strategic technologies utilizing Adobe tools to push the boundaries of the technology and to create innovative products for the market. The UNICOM project, where I developed the voice, IM and other features, received interest from DISA, USA.

Key Technologies: Flash, HTML, CSS, JavaScript, C#.

Sep 07 – Apr 11

Web Engineer, Web Technology Group, Adobe Systems, Bangalore, India

About the team: The team has an established presence within Adobe, and is a key player in creating and maintaining Adobe's core digital asset: *adobe.com* and leverage the platform for Adobe's cloud strategy which now encompasses three components, *Creative Cloud, Document Cloud and the Digital Marketing Cloud*

Roles and Responsibilities: Worked on Adobe's digital presence, on Adobe's Online Store transacting over a Billion US Dollars. Created platform technologies that have been used in Acrobat product families. My work has been credited and acknowledged in Acrobat X and subsequent Acrobat versions.

Key Technologies: HTML, CSS, JavaScript, ColdFusion, Flex, Flash.

INDUSTRY HONOURS

MAY 2006 One of the top *1k* participant in *Microsoft Code4Bill* contest.

JUL 2007 First prize in *Adobe Developer Olympiad* and received accolades in the categories of 'Innovative UI and Experience models' & 'Mash Up Applications'.

CONFERENCES AND HACKATHONS

Fab(lab) Asia Network 2017	Kochi, IN	Panel Speaker: "Connecting Art, Design & Digital Fabrication"
Hack the Visual 2015	London, GB	Hackathon Participant & Winner
UX India 2013	Bangalore, IN	Speaker: "Usability in Data Visualization"
Adobe Tech Summit 2013	San Jose, CA	Speaker: "Adobe's Predictive Technologies"
Adobe Tech Summit 2011	San Jose, CA	Speaker: "Introduction to Rapid Prototyping"
Adobe MAX 2011	Los Angeles, CA	Speaker: "Adobe @ Adobe"

PRODUCT SHOWCASE

CES 2017	Las Vegas, NV	WebCardio (STMicro)
IoTWorld 2017	Santa Clara, CA	WebCardio
Cardiology Society(IN) 2016	Kochi, IN	WebCardio
IoTWorld 2016	Santa Clara, CA	WebCardio
Adobe DMS 2013	Salt Lake City, UT	Emotions Sneak-Peek

OTHER ACTIVITIES

- *Mentoring:* I have mentored internship students at work at both Adobe and at WebCardio.
- *Classes:* I have actively participated in conducting seminars and tutorials aimed at engineering students in the field of IoT.

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