

SANDEEP ZECHARIAH GEORGE K

WORK EXPERIENCE

Mar 16

Chief Software Architect, WebCardio, Kochi, India

About the team: 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.

Roles and Responsibilities: 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 in mobile, cloud and web development.

Key Technologies: JavaScript, NodeJS, Amazon Web Services including Lambda, DynamoDB , S3 and others.

Oct 12 – Jul 14

Researcher, Adobe Research Labs, Adobe Systems, Bangalore, India

About the team: Adobe Research is a premier organisation 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.

Roles and Responsibilities: Developed strategic patented technologies, (a few of these are listed in the sections below) for Adobe Digital Marketing Cloud, and created visualisations demonstrating the technologies. My work involving creating strategic visualisations 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.

Key Technologies: R, D3, Python, JavaScript, Apache Storm, Redis, HBase.

Apr 11 – Oct 12

Product Solution Developer, Adobe@Adobe, Adobe Systems, Bangalore, India & Ottawa, Canada

About the team: 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 own technologies to further the boundaries of its portfolio.

Roles and Responsibilities: Created strategic technologies utilising 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.

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.

EDUCATION

- 2015 Master of Science in HUMAN COMPUTER INTERACTION WITH ERGONOMICS,
University College London, London
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.
——: An Intuitive color selection tool for the real world.
——: Performance monitoring system for RIA.
——: Automatic Tracking injection for Web Applications.

Paper: *“Real-time visualization and targeting of online visitors.”* Proceedings of the 37th international ACM SIGIR conference on Research & development in information retrieval.

INDUSTRY HONOURS

- 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

- | | | |
|-------------------------|------------------|---|
| UX India 2013 | Bangalore, India | 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” |
| Hack the Visual 2015 | London, GB | Hackathon Participant & Winner |
| Service Design Jam 2015 | London, GB | Hackathon Participant |

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 |

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.