

# SACHIN EDLABADKAR

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## EDUCATION

### UNIVERSITY OF FLORIDA

*M.S. in Computer Science*

Aug 2015 - May 2017

### BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI (India)

*B.E. in Computer Science*

Aug 2008 - May 2012

## TECHNICAL SKILLS

- **Languages:** Java, C, C++, JavaScript, Scala(Familiar)
- **Web Technologies:** Node.js, Express, ReactJS, HTML, CSS, PHP(Familiar)
- **Databases:** MySQL, Oracle 10g, MongoDB, SQLite, Cassandra
- **Others:** Windows, Linux(Ubuntu), Git, SVN, JIRA, Maven, Wireshark, TCP/IP, UDP, VoIP, SIP, SDP, RTP, HTTP, Akka.io, Spray.io, XML, JSON, PL/SQL, MVC, Protobuf

## PROFESSIONAL EXPERIENCE

### InterDigital, Conshohocken, PA – Software Developer Intern

June 2016-Dec 2016

- Developed lightweight CoAP and HTTP API based on OneM2M standards for memory constrained IoT devices.
- Worked on AVR microcontrollers with as little as 8KB memory to perform CRUD operations and subscribe-notify on OneM2M Resources.
- Project was successfully demoed at **ETSI 3rd IOT Global Interop event in Kobe, Japan.**

### Polycom, India – Software Engineer – C++, C

June 2012-July 2015

- Part of the Communications team for Polycom's video conferencing products: *Group Series & HDX*
- Responsibilities include feature design and development, resolving critical issues and customer escalations, code reviews, mentoring interns, and training new employees.
- Awarded Polycom Star Award for leading the development effort for *Video Mute Feature*.
- Played crucial role in setting up Group Series development at Polycom's India Development Center.
- Acted as a point of contact for quick triage of potentially release threatening issues found in the late stages of a software release.
- Engineered a prototype during the Polycom India hackathon that allows live video preview of the caller while the call is ringing.

### Deloitte, India – Software Developer Intern

July 2011- Dec 2011

- Developed a web portal for project management and progress tracking. Later expanded to include document and resource management. Using **JavaScript**, HTML, CSS
- Implemented audit summary generation tool, which scanned through millions of lines of data collected during audit process to generate reports based on some preselected criteria.

## ACADEMIC PROJECTS

### Facebook API Simulator - Scala, SBT, Akka, Spray, REST API

- Designed a distributed Facebook Graph API engine using *Akka actor framework*.
- Developed **REST API** for Page, Post, Friend List, and User Profile using *Spray REST/HTTP framework*.
- Added **End-to-End encryption** for posts and private messages using **RSA -1024** and **AES-256** encryption.
- Implemented a **client simulator** to simulate 10000+ users (Akka actors), each making multiple requests per second .

### eVending - Team Project – Java, Node.js, Google Cloud Platform, Intel Edison, Beacons

- Developed an **IoT solution for vending machines** as part of a team of four.
- Implemented backend code for cloud based inventory and transaction management.
- Coded up an **Android app** to allow users to interact with all available vending machines in user's vicinity, view available products and make purchase.
- Implemented cashless transactions through Android Pay or Debit/Credit Card using Stripe API.

### RPAL Interpreter – C++

- Implemented an interpreter for RPAL, a simple functional programming language.
- Wrote the code for **Lexical Analyzer**, **Recursive Descent Parser**, **AST standardization** and **CSE rules** to ensure correct execution of RPAL programs.