

# ACHUTHANANDA M P

## Profile

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## EDUCATION

*Master of Technology*, Information Technology  
**IIT Kharagpur**

July 2014-May 2016

*Bachelor of Engineering*, Information Science  
**Peoples Education Society Institute of Technology**, Bangalore

Sep 2006-June 2010

## PROFILE SUMMARY

- 9 years 6 months of experience in Software Development, Design and Consulting.
- Exposure to Analysis, Design, Implementation and Testing phases of Software development.
- Experience in DevOps, DevSecOps, Building CI/CD Pipelines, CLIs and Python SDKs.
- Expertise in Python Automation to Improve the Efficiency.
- Expertise in Architecting CDN Solutions to improve Web Performance, Application Security Posture and Media Streaming Delivery.
- Good understanding of Live and VOD Streaming Technologies.
- Good understanding of Multi Cloud Setups such as Azure, AWS and GCP.
- Expertise in DNS, HTTP, HTTPS, SAML, TCP/IP, DLNA, UPnP Protocols.
- Expertise in Application and Middleware Development in various platforms such as Linux, Tizen, & Android.
- Good understanding of SDN and its applications.

## PUBLICATIONS

- Misra, S., Bera, S., **Achuthananda, M. P.**, Pal, S. K., Obaidat, M. S. (2017). Situation-Aware Protocol Switching in Software-Defined Wireless Sensor Network Systems. IEEE Systems Journal.
- Misra, S., Wolfinger, B. E., **Achuthananda, M. P.**, Chakraborty, T., Das, S. N., Das, S. (2019). Auction-based optimal task offloading in Mobile cloud computing. IEEE Systems Journal

## PROFESSIONAL EXPERIENCE

**Akamai Technologies**, Bangalore, India  
**Designation** : Senior Solutions Architect

Feb 2019 - Present

### Roles and Responsibilities

- Working on Customer's Web Application Architecture and to design and implement a customized solution to maximize their utilization of the Akamai platform.

- Working Customer's Media Delivery(Live and Vod) Architecture. To design and implement a customized solution to deliver live and vod content via the Akamai Platform.
- Implementing Security Solutions to Customer's Application and ensuring that the WebApps are safe and secure.
- Implementing DevOps and DevSecOps Solutions for Akamai Customers to help them make use of the Akamai Platform in their DevOps Cycle and increase efficiency.
- Deliver training on Akamai products and services to internal Akamai employees, to Akamai customers, and to Akamai consulting partners.
- Have written array of Technical Blogs to help customers and internal folks work efficiently with Akamai Products.

**Project1** ::Salesforce Application for Daily Case Management Tool

Aug 2019 to May 2020

**Role** : Developer and Project Manager

**Technologies Used:** JQuery,Nodejs,SQL,HTML,CSS

- Built an in house tool as POC to log the daily case updates on top of salesforce.
- Played role as Only Developer and Project Manager.
- Tool is very instrumental in increasing the productivity.
- Tool was widely appreciated by stakeholders since it .
- Tool was accepted and implemented by the Salesforce Team.

**Project2** ::CLI and SDK Development

May 2020 -

**Role** : Developer

**Technologies Used:** Python

- Developed the CLIs for Akamai Products like CAC,MediaServices,Datastream,Access Revocation
- Built the SDKs for Akamai Products like AkamaiProperty,Datastream, Akamai Test Center and China CDN.

**Project3** ::Spike Your Test Coverage

Dec 2020 - Jan 2021

**Role** : Developer

**Technologies Used:** Python

- Implemented an intelligent engine to identify the test cases for Akamai Configurations.
- Built the module to automate the creation of Test Cases in ATC.
- Increased usage of ATC and Test Coverage nearing 100 percent.

**Cisco Systems**, Bangalore, India

Aug 2016 - Feb 2019

**Project1** ::Protocols of Cisco Wireless Lan Controller.

Aug 2016 to Feb 2019

**Designation** : Senior Software Engineer

**Role** : Developer

**Technologies Used:** C,Yang,Python,MIBs.

- Have worked on Network Assurance of WLC.
- Extensively worked on SNMP module for WLC. Official reviewer of MIBs for the BU.
- Involved in sustenance for features like Mobility,CDP and EOGRE.

**Project2** ::ns3-802.11ax-simulator

May 2015 to Nov 2015

**Role** : Developer

**Technologies Used:** C,ns3 Simulator

- Implemented the infra for communication between the modules.
- Separated out the monolithic architecture.
- Github Link: <https://github.com/cisco/ns3-802.11ax-simulator>

**Project3** :Cisco SDN Solution for Protocol Indendent SDN Switches.

May 2015 to Nov 2015

**Designation** : Intern

**Role** : Developer

**Technologies Used:** C, C++, Python .

- Separation of single monolithic structure of the Cisco SDN SDK.
- Implementation of P4 Interpreter to the proprietary language used by Cisco SDK.
- Dynamic generation of Yang models for the new protocols which will be used to manage the network devices.

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**Samsung Research India Bangalore(SRI-B)**, Bangalore, India    August 2010 - December 2013

**Project1** :AllShare Framework For Tizen Mobile

Jan 2013 to Dec 2013

**Designation** : Senior Software Engineer

**Role** : Module lead

**Technologies Used:** Tizen OS, C, C++ .

- Responsible for AllShare Framework's successful porting into Tizen Mobile.
- Improved the performance of protocol stack by using code optimization techniques.
- Efficiently Handled all high priority issues during the commercialization of Tizen Mobile Phones.
- Served as contact point of Tizen DLNA in the organization.
- Got the Digital Media Client and Digital Media Server 'DLNA certification' for Tizen Mobile Phone by fixing all CTT issues.
- Lead the module of stabilizing the Digital Media Server for Tizen Mobile and fixed all the issues raised during the commercialization.

**Project2** :AllShare Framework Development for Android mobiles

Aug 2011 to Dec 2012

**Designation:** Software Engineer & Senior Software Engineer

**Role** : Core developer

**Technologies Used:** Android, C, C++ .

- Implemented Command Prompt User Interface for AllShare applications like Digital Media Server and Digital Media Client.
- Got the Digital Media Client and Digital Media Server 'DLNA certification' for Android Mobile Phones by fixing all CTT issues.
- Implemented various modules like MSCP, MRCP & Kiescp.
- Implemented Logging mechanisms and ACL feature for entire AllShare framework.
- Handled all the issues efficiently during the successful commercialization of Galaxy S3,S4 and Galaxy Note2.
- Responsible for resolving day to day integration issues and ensuring timely and successful integration activities.

AllShare is a UPnP based framework, which provides an easier way to connect and communicate between the smart devices in the home network. Applications written on top of this framework can store, share and enjoy contents securely at your home with your family.

**Project3** :Commercialization of Samsung Smart TV 2013

May 2012 to Nov 2012

**Designation:** Senior Software Engineer

**Role** : Core Developer

**Technologies Used:** Unix, C, C++ .

- Fixed all the issues of DLNA module in Samsung Smart TV during the commercialization in South Korea.

- Performed the Inter-Operability test with more than 100 UPnP and DLNA devices and fixed all issues found in TV.
- Did Regression Testing on Tv and fixed issues if any found in a short span.
- Served as Contact point for DLNA TV Project in the organization .
- Responsible for resolving day to day integration issues and ensuring timely and successful integration activities.

**Project4** :DLNA for Refrigerator(Coin)

Aug 2012 to Sep 2012

**Designation:** Senior Software Engineer

**Role :** Lead

**Technologies Used:** Windows, C, C++ .

- Implemented Digital Media Server , Digital Media Renderer for the Refrigerator platform
- Singly handled the whole module by developing,testing and fixing the issues found.
- Served as Contact point for Coin Project in the organization .

**Project5** :Commercialization of Samsung Set Top Box

March 2011 to June 2011

**Designation:** Software Engineer

**Role :** Developer

**Technologies Used:** Windows, Linux, C, C++

- Implemented Search functionality which was not presented in the Set Top box then.
- Fixed all the issues of search and browse of DMS.
- Worked for DLNA certification of Samsung Multimedia Platform DMC.

### TECHNICAL PROFICIENCY

- **Programming Languages:** Python, Javascript, C, C++.
- **Web Development:** Python, Nodejs, JS, HTML, CSS, JQuery
- **Cloud:** AWS, Azure and GCP
- **Operating System:** Linux, Windows, Tizen, Android.
- **Devops Tools:** Github Actions, Jenkins, Docker, Terraform.
- **Build and Debugging tools:** Vim, GCC, GDB, VSCode, Tizen SDK, Valgrind.
- **Version Management:** Github, BitBucket, Gitea

### HOBBY PROJECTS

- Fitness Class Auto Booker.
- Covid Stats Tweeter
- Cowin Slots Notifier
- India News Notifier
- Motivational Quotes to Inspire
- TTD Notifications
- Reality Show Bulk Voter
- URL Shortner