

# SANDEEP NADELLA

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## WORK EXPERIENCE

### SENIOR SOFTWARE DEVELOPER, ORACLE [JUNE 2015 - JULY 2018] *Member of Commerce Cloud Integrations Team*

- Worked on **Oracle Integration Cloud Services (ICS)** SDK and contributed to the development of Oracle Commerce Cloud Adapter.
- Undertook the migration of Oracle Commerce Cloud internal API documentation to JSON Hyper-Schema, **OpenAPI Specification (OAS)**.
- Implementer and maintainer of **Swagger** functionality of ICS/OIC CC adapter.
- Contributed to **Commerce-Responsys** (part of Oracle Marketing Cloud), **Commerce-SiebelCRM** integrations.
- Authored a few My Oracle Support (**MOS**) articles and public documentation articles to assist customers in setting up integrations in ICS/OIC.
- Used **JavaScript** and **Java** to develop the front end and back end designs for **CC-OROMS** integration.
- Designed a few **XSLT** templates for mapping data between **Oracle FOM** and Commerce, OROMS and Commerce.
- Worked on **Product Hub** integration which includes exporting and importing product data individually and in bulk.
- Implemented **Oracle Engagement Cloud for Communications** integration
- Worked on **NodeJS** based custom extension server framework

### SOFTWARE DEVELOPER, ARIZONA STATE UNIVERSITY [JAN 2019 - PRESENT] *Part-time, Full Stack Developer*

- Developing Analytics applications for SoMSS, AMLSS departments, MTBI program using Node.js, Angular, Cube.js
- Deployment of applications on Amazon Web Services(AWS) and local web servers
- Setup, Deployment and Maintenance of Open source software such as Opencast for SoMSS, Concerto for CHS departments
- Setup and Maintenance of High performance Computing servers, Department and Lab systems involving Bash scripting
- Integration of Concerto with REDCap for CHS department

**INTERN, INDIAN INSTITUTE OF SCIENCE, DEPARTMENT OF AEROSPACE  
SUMMER INTERNSHIP 2014** *Under supervision of Dr. S. N. Omkar*  
**AERIAL SCENE UNDERSTANDING USING DEEP WAVELET SCATTERING NETWORK AND CONDITIONAL RANDOM FIELD, ECCV 2016 WORKSHOPS**  
Interned on Image Processing and **Computer Vision**. The project aimed at constructing city maps from aerial images obtained by UAVs and classification using CRFs.

## EDUCATION

### MASTER OF COMPUTER SCIENCE ARIZONA STATE UNIVERSITY ARTIFICIAL INTELLIGENCE SPECIALIZATION

[AUGUST 2018 - MAY 2020]  
**CGPA: 4.11/4**

### BACHELOR OF TECHNOLOGY NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL ELECTRONICS AND COMMUNICATION ENGINEERING

[JULY 2011 - MAY 2015]  
**CGPA: 8.12/10 (~ 3.6/4)**

### INTERMEDIATE BOARD OF INTERMEDIATE EDUCATION MATHEMATICS, PHYSICS, CHEMISTRY

[2009 - 2011]  
**CGPA: 96.5/100**

## ACADEMIC ACHIEVEMENTS

- Engineering Graduate Fellowship **2018-2019, 2019-2020**
- All India Rank of **3468** in **AIEEE** (Appeared: 1.05 Million)
- State Rank of **148** in **EAMCET** (Appeared: 0.3 Million)
- All India Rank of **34** in **SRMEEE** (Appeared: 0.15 Million)

## COURSES

- Semantic Web Mining
- Software Engineering
- Software Design
- Data Visualization
- Mobile Computing
- Data Mining
- Data Processing at Scale
- Artificial Intelligence
- Human Computer Interaction
- Computer Networks

## SKILLS AND ABILITIES

### PROGRAMMING LANGUAGES

Java, JavaScript, C++, HTML, CSS, SQL, XSLT, Python, MATLAB, Embedded C

### TECHNOLOGIES, LIBRARIES, TOOLS USED

Cube.js, Node.js, D3.js, Chart.js, Angular(TypeScript), JSON Web Tokens(JWT), OAuth, Oracle ATG Web Commerce platform, J2EE and Web design, development essentials, REST and SOAP web services, JSON/XML, Claudia.js, Amazon Web Services(AWS), AWS Lambda, API Gateway, Android App Development SDK, Jasmine testing, Selenium IDE, JUnit testing, Arduino, Raspberry Pi, Intel Galileo, Intel Atom boards, Xilinx FPGAs, MySQL, PostgreSQL, Python – Django framework, TensorFlow APIs, Git, Perforce, ADE source code version control tools, Gradle, Maven build tools, OpenCV, Docker, Tableau, Google Firebase, ML Kit, Spotify Web and Android SDKs, Axure RP for Prototyping

### OPERATING SYSTEMS

Windows, MacOS, Android, iOS, Linux (Debian, RedHat)

## PROJECTS

- **Human Activity Recognition** - Computing system to recognize various activities recorded using Myo gesture control armband. Training is done using Decision Trees, Support Vector Machines (SVM) and Neural Networks.
- App development using **JavaFX**
- **Relay Node Placement** - Algorithmic implementation and Visualization for solving BCRP-MNCC, BCRP-MLCC problems using NetworkX
- **Exalty** App - Context based playlist recommendation app which integrates with Spotify.
- **Action** App - Mobile application to train custom gestures and test for accuracies using various Machine Learning models.
- **Health Care Mining** App - An information extraction system that turns unstructured medical healthcare data from sources like WebMD.com, Drugs.com, Patient.info into structured information provided with a parametric search interface.
- **Geospatial Query using Apache Spark** - Identifying statistically significant hot spots by applying spatial statistics to spacio temporal Big Data using Spark SQL.
- **Constructing Influence Flowers for Real Estate Businesses** - Visualizing contribution of various real estate business categories to the City's growth.
- **Influence Flowers for Movie Industry** - Visualizing contribution of Directors, Writers to a genre collection in the Movie industry.