

SIDDESH PILLAI

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WORK EXPERIENCE

Research Assistant at Rochester Institute of Technology

Aug, 2015 – Dec, 2015

Role: Full Stack Engineer | **Technologies:** Android, Node.js, Mongo DB, JUnit, OpenShift

Awards: Winner, Intuit Intern Summit 2015 for 'Best overall journey through NEXT loop of Lean Start-In'

Software Engineer Intern at Intuit Inc.

June 2015 – Aug, 2015

Role: Developed backend tools for DevOps | **Technologies:** JBOSS, J2EE, Jenkins, Perforce, AWS, JUnit, TDD

Software Product Engineer Intern at Esri Inc.

May 2014 – Dec, 2014

Role: SDK Developer for ArcGIS Android and Qt SDK | **Technologies:** ArcGIS, Android, Qt, C++, Qml, REST, Git

Open source: Lead Android developer for 'Maps-App' android repository

Software Developer Intern at Data Voice Solutions

May 2013 – July 2013

Role: Hadoop Developer - Visualize patterns on unstructured data | **Technologies:** Hadoop, MapReduce, Hive, Git

Business Coordinator at Hindesa Yarns

Oct, 2011 – Dec, 2012

Role: Cost Modeling, Customer Behavior & Analysis | **Technologies:** Excel, Python, Tableau

EDUCATION

Rochester Institute of Technology, Rochester, New York USA

Aug, 2013 – Present

Master of Science - Computer Science

Anna University, Coimbatore, India

Aug, 2007 – May 2011

Bachelor of Engineering - Computer Science and Engineering

PROJECTS

Deep Learning for Image Captioning (Final capstone project):

Generating Image descriptions via Deep neural network using Torch, Lua, MSCOCO

Trip Type Classification (Big Data Analytics):

Implemented a NN classifier in Python for market basket analysis to classify shopping trips

Deep Learning of Convolutional Neural Network (Parallel Computing):

Parallelized the training deep neural network on GPUs using CUDA and Parallel Java 2 library

DNA Sequences (Parallel Computing):

MapReduce parallel program to compute DNA sequences on a cluster parallel machines using Java with PJMR framework of Parallel Java 2 library

Distributed Computation (Distributed Systems/Mobile and Pervasive Computing):

Implemented a reliable, fault tolerant, distributed map reduce framework for a network of raspberry pi using Java, Java Network API, Sockets, MapReduce, Raspberry Pi, Ant

TCP - Tahoe, Reno (Computer Networks):

Implemented TCP Tahoe, Reno with congestion avoidance and flow control in UDP using Java

Smart Blind Controller (Mobile and Pervasive Computing):

Developed an IOT application which adjusts blinds based on room temperature, light intensity using Android, Java Network API, Fuzzy Logic, Raspberry Pi, Ant

SMTP (Computer Networks):

Developed a mail server using IMAP and POP3 protocols with file caching mechanism and callbacks and an android client app using Java, AWS(SES), File I/O, Android, JUnit

Price Watch (Web Services & Android Client):

Developed RESTful service endpoint APIs to notify prices of products using Pub/Sub model and android client app using Derby server, JAX-RS, Java, Android, JUnit, Parse

Smart Shuffle Stack (BrickHack 2015 - Best Android Hack awarded by Google):

Android Wearable app to recommend songs based on the heart beat rate

ISL App 2014 (Runner Up – Intel Connect & Enrich Android Challenge, Google Summer of Apps and Fitness):

Designed, developed & published application for the Indian Super League 2014 on google play store with 10,000 users and 4.8 ratings using Android, Parse, Font Awesome, REST, Retrofit

Pool a Car (World Top 30 – University Mobile Challenge by Applied Innovation Institute & GSMA):

Concept, design and developed a carpooling app for university students using Android, Parse

Flight Simulator to predict delays (Big Data):

Developed a hybrid decision tree classifier in Python to predict flight delays

SKILLS

- **Languages & Scripting:** Java, C++, Python, Qml, SQL, Bash, Gradle, R, Lua
- **Databases:** Mongo DB, MySQL, Redis, SQLite, Dynamo DB
- **Frameworks & Tools:** Torch, Minitab, Tableau, Tensor Flow, Google Analytics
- **Mobile & Web Technologies:** Android, iOS, HTML5, CSS, Node.js, REST, SOAP
- **Cloud:** OpenShift, Docker, Jenkins, Git, AWS (EC2, S3, SNS, SES, SQS), Azure