LAKSHMAN PAVAN KUMAR BODDOJU

SOFTWARE ENGINEER

EDUCATION

Northwestern University   Dec. 2018
Master of Science. Computer Science
GPA: 3.69/4.0

VIT University   June 2016
Bachelors of Technology. Electronics and
Communication Engineering
GPA: 3.72/4.0

SKILLS

RELEVANT COURSEWORK: Machine Learning, Natural Language Processing, NUvention Analytics, Intro to AI, AI Programming, Human Computer Interaction, Optimization for Deep Learning, Database Systems, Data Structures and Algorithms
DOMAINS: Artificial Intelligence, Machine Learning, Natural Language Processing, Analytics, Product Design, Networking, Entrepreneurship, Customer Relations, Software Engineering, Sales, Support
LANGUAGES: Python, Java, C, C++, SQL, HTML, CSS, JavaScript, NodeJS
TOOLS: Git, JIRA, Google Cloud, Kafka, MySQL, Oracle DB, Flask, IXIA, XENA, NLTK, NumPy, Scikit-Learn, TensorFlow, Spring, Service-Now, AWS

EMPLOYMENT

TATA CONSULTING SERVICES - MOTOROLA SOLUTIONS   Chicago, IL
Software Engineer   Aug. 2019 to Present
- Develop and Maintain software for SalesView - A sales reporting and payment application built on AngularJS, and NodeJS.
- Lead Offshore L3 and L2 teams for product development, enhancements and critical fixes, mainly for Motorola Sales Partners.
- Facilitate and Maintain communication channels with various stakeholders - Customers, Sales Partners, Customer Support, and R&D teams in high visibility issues throughout the post - sales period.
- Major Incident Management - Organize Service Recovery Teams and provide support for unplanned critical incidents/outages with MSI or their customers. Communicate damages and facilitate restoration efforts to high level management.
- Contribute to ongoing code reviews, hold team meetings, and maintain R&D - Support - Sales relationships.
- Mentor junior developers, delegate tickets and provide assistance with programming techniques & best practices.
- Re-engineer & Maintain Cron Jobs through Linux scripts for Data Integration between various teams/sources.
- Build and maintain SQL scripts, indexes, and complex queries for data analysis and extraction from the MySQL database.
- Develop and Maintain Documentation for software programs, build JIRA stories, and handle Service-Now ticket requests.

INTELI PLATFORMS   Princeton, NJ
Network Automation Engineer   May 2019 to Aug. 2019
- Developed scripts for deployment, maintenance and monitoring of various network devices using Python.
- Built custom pcap file interpreter, provided code reviews, and maintained bug tracking using JIRA.
- Experience with deployment, and configuration of various L2 and L3 devices i.e. switches & routers using CLI.

INDEPENDENT CONSULTANT   Chicago, IL
Product Designer - Data Visualization   Jan. 2019 to Apr. 2019
- Assisted Lanny Roytburg (Talliman Inc.) with Analytics consulting to strengthen their relationship with building material manufacturers.
- Developed rapid prototypes/wire-frames to market to end clients.
- Product development - designing wire-frames, creating data pipelines, data modelling, and developing solution architecture.

NORTHWESTERN UNIVERSITY   Evanston, IL
Phonathon Student Representative   June 2018 to Dec. 2018
- Served as an ambassador by establishing an open line of communication between the University and its supporters.
- Called constituents (alumni, parents, & friends of NU) to build personal rapport, update info, and acquire gifts to the Annual Fund.
- Deeply understood the University organizational structure, and handled everyone's information with extreme confidentiality.

Teaching Assistant   Sept. 2018 to Dec. 2018
- Mentored various student groups from diverse backgrounds, assisted in development of their startup pitches and evaluated their progress over the course of the quarter.
- Built & maintained personal relationships with the advisory board, professor, students, past and future startups from the class.
- Assisted Prof. Mark Werwath with NUvention Transportation class instruction, assignments, evaluations, and administrative tasks.

Research Assistant   June 2018 to Sept. 2018
- Assisted Prof. Doug Downey in development of a new framework for sharing word embeddings for Natural Language Processing applications.
- Analyzed papers, experimented with combining context sensitive and context independent word embedding pre-trained models to evaluate if they perform better than the current SOTA on a bunch of established tasks.
- Supervised and mentored the research of undergraduate & foreign exchange students to ensure proper understanding of concepts and completion of assigned experiments.
- Collaborated with faculty and students across different departments to conduct interdisciplinary research.

EMPLOYMENT

GIGAMON   Chennai, India
Software Engineer - Sustaining (Customer Facing)   June 2016 to Aug. 2017
- Developed software for GigaSMART product range - Packet Deduplication, Inline SSL decrpytion, Netflow, Packet Slicing and Masking.
- Interfaced with high profile customers and developed custom features based on business requirements in high pressure situations.
- Contributed to ongoing code reviews, held team meetings, and maintained R&D - Support - Sales relationships.
- Built customer & internal features in an agile development team in Embedded software, Networking, Network Security, Traffic Visibility and Deep Packet Inspection.
- Worked closely on top of network processors, Linux interfaces, C and C++ languages mainly used.

DEFENCE RESEARCH DEVELOPMENT LABORATORY   Hyderabad, India
Engineering Intern   Dec. 2014 to Jan. 2015
- Assisted and contributed to ongoing research on High Dynamic Carrier Tracking Loop for carrier identification.
- Assisted product research for GPS receivers, and missile communication.

PROJECTS

DATA MANIPULATION USING KAFKA AND SPRING
- Read, Understand & ingest provided data-sets and schema from natural text format into specified JSON structures.
- Filter, and Push processed JSON data through Kafka messaging pipeline using Spring API.
- Read JSON data from Kafka brokers and convert into designed Database Schema to store it in Oracle DB.

STOCK MARKET ANALYSIS BASED ON ONLINE SENTIMENT
- Built a prediction system based on inputs from analyzing natural language from news headlines to find correlations between the sentiment of public activity and stock ticker price. This is a Deep Learning model trained on media websites such as the New York Times. Performance: 62.4% Model directional accuracy vs 54.1% ZeroR model.

RECIPE TRANSFORMER
- Built a Natural Language Processing system that analyzes any recipe and transforms it into different recipes based on restrictions and preferences such as vegan, Indian cuisine, Italian, etc. This is through Artificial Intelligence and Knowledge Representation. Built using Python.

GOLDEN GLOBES SUMMARIZER
- Built a Natural Language Processing system that summarizes the Golden Globes Event using data analytics from tweets. It Figures the hosts, nominees, presenters, winners and associated them with each award category they were related with. Built by using Python, Nltk and TextBlob.

OBJECT CLASSIFICATION USING NEURAL NETWORKS
- Developed a Machine Learning based system to classify objects in images by training Artificial Neural Networks using edges as features (Canny Edge Detection) and learning through Backpropagation. Built and tested using MATLAB. The test acc. was 81.4% for a custom test data set of 400 examples.

STUDENT REGISTRATION SYSTEM
- Developed a database client that implements a student registration and academic system. Implemented various features including: Login Access, Student Menu, Transcript Fetch, Course Info, Enroll & Withdraw procedures. Built using Python and MySQL.

FAIRPASS
- Fairpass is a real-time communication platform for hospitals to optimize resource utilization and increase patient satisfaction. Building and testing various models to predict patient wait-times, and hospital bed management. This is based on a NU Ph.D. student's research and being built.

AWARDS & CERTIFICATIONS

Cisco - **Cisco Certified Network Associate (CCNA) - Routing and Switching**   July 2019
VIT University - **Special Achiever Award - Prototype Car - Shell Eco-Marathon - 100kmpl**   Mar. 2016

CONTACT

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GROUPS

Chicago Python Users Group - ChiPy

Chicago Java Users Group - CJug

Chicago Lean Startup Circle

UX Strategy - Chicago