Amrit Sahoo

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EDUCATION

Arizona State University	*Tempe, Arizona*
MS, Computer Science	*(Expected May 2018)*

Courses: Distributed Database Systems, Data Mining, Data Visualization, Artificial Intelligence, Adaptive Web. *GPA: 3.9*

National Institute of Technology Trichy	*Trichy, India*
Bachelor of Technology, Computer Science and Engineering	*2010 - 2014*

Courses: Algorithms, Software Design, Cryptography, Operating Systems, Software Security, Computer Networks. *GPA: 8.26*

PROFESSIONAL EXPERIENCE

Software Engineering Intern	*June 2017 – August 2017*
Walmart Technology	*Reston, VA*

- Developed a real-time, Big Data pipeline for analyzing 40 million daily sales data, gathered from 5500 Walmart Stores across the country. Created Druid database specs, REST API service and visualizations. - *Apache Storm, Spring framework and Druid.*

Senior Software Engineer	*November 2015 – May 2016*
Youngmonk Technologies Pvt Ltd	*Bengaluru, India*

- Designed and Developed GoZoomo CRM, the backbone platform handling all business communications and payment transactions with multiple Customer workflows. Applauded for boosting business efficiency, used modular design to integrate future business verticals.
- Developed Auctions Platform for GoZoomo vehicles. Enhanced the platform to support Multitenancy.

Software Engineer	*July 2014 – November 2015*
Chronus Corporation	*Chennai, India*

- Improved system uptime by building an Automated Recovery Solution on AWS platform with Ruby SDK. Improved recovery time by 70%.
- Developed various internal tools for Monitoring Emails, Custom Signup workflows and SSO integrations (SAML, OAuth etc). Improved existing security architecture for employee access.
- Improved Core Product Deployment Strategy which reduced the time taken by 40% and suggested better Devops processes in company to increase efficiency.
- Built a Quality Gate Data population Framework to prevent performance issues. Work received the best internal tool award.
- Developed a Recommendation System for Chronus Mentor SaaS product, based on Collaborative Filtering, using Ruby and Redis NoSQL database.

PROJECTS & ACHIEVEMENTS

- **Spatio-Temporal Hotspot Computation** of NYC Taxi Big dataset using Getis-Ord statistic. - Apache Spark, Hadoop HDFS
- **Artificial Intelligence** –Designed an AI bot that plays Lunar-Lander Game using Deep Reinforcement Learning Neural Networks - Google Tensorflow Framework.
- **Interactive Data Visualization** of NYC taxi cabs dataset – Aimed at helping drivers maximize their revenue. *used D3.js, Crossfilter.js and Python Flask.*
- **Adaptive Class Notes App –** Efficient search and recommendations for a feature rich, social note-sharing platform. Elasticsearch/Lucene, Ruby, Python, Javascript.
- Safe Routes, a **Smart Android App** which predicts user's daily travel and prompts with safer routes using Crime data for San Francisco. Developed the Backend Server and Prediction Logic for Safer routes. - *Android, Python Flask*
- **Classification of Handwritten digits** and comparison of results using various methods like Artificial Neural Networks and SVMs. - *Matlab*
- **ACM-ICPC** (Amritapuri 2012 regionals) Algorithm challenge contest: Ranked 11th in Qualifier and 31/250 in Regionals.

TECHNICAL COMPETENCIES

- **Languages:** Python, Java, Ruby, C++, PHP, Javascript
- **Tools:** Git, Matlab, Amazon Web Services, Android, Redis, MySql, Tableau, D3.js, React, Apache Spark, Kafka, Druid
- **Operating Systems:** Linux and MS Windows