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, Foundation of Algorithms, Software Security. *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, Artificial Intelligence, Computer Networks. *GPA: 8.26*

PROFESSIONAL EXPERIENCE

Software Engineering Intern *June 2017 – August 2017*
WalmartLabs *Washington D.C*
- 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. Used Apache Spark, Spring framework and Druid.

Senior Software Engineer *November 2015 – April 2016*
GoZoomo.com *Bengaluru*
- 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*
- 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.

Software Engineer Intern *May 2013 – July 2013*
Chronus Corporation *Chennai*
- Developed a Recommendation System for Chronus Mentor SaaS product, based on Collaborative Filtering, using Ruby and Redis NoSQL database.

PROJECTS

- **Interactive Data Visualization** of NYC taxi cabs dataset – Aimed at helping drivers maximize their revenue. *used D3.js, Crossfilter.js and Python Flask.*
- 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*
- **Spatio-Temporal Hotspot Computation** of NYC Taxi Big dataset using Getis-Ord statistic. - *Apache Spark, Hadoop HDFS*
- **Secure Banking System**, led a team of 7 to develop a full-fledged Banking Application with security features like OTP, Captcha etc. - *MVC Spring, Java, Agile Methodologies*
- **Classification of Handwritten digits** and comparison of results using various methods like Artificial Neural Networks and SVMs. - *Matlab*

Additional Experience & Achievements

- **ACM-ICPC** *(Amritapuri 2012 regionals)* Algorithm challenge contest: Ranked 11th in Qualifier and 31/250 in Regionals.
- **Research Intern** at RISE labs IIT Madras (Dr. V. Kamakoti) - Software Router Simulation of various Routing Algorithms.
- **Technology Speaker** at NIT Trichy, Web Team.

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