

NIRUPAMA SHARMA

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EDUCATION

Northeastern University, Boston, MA

December 2019

Master of Science in Computer Science

Courses: Programming Design Paradigm, Robotic Science and Systems, Algorithms, Managing Software Development, Natural Language Processing, Game Artificial Intelligence, Foundations of Cloud Computing, Mobile Application Development

Rajasthan Technical University, Kota, India

June 2012

Bachelor of Technology (Honors) in Computer Science & Engineering

WORK EXPERIENCE

Intel Corporation, Bellevue, Washington

February 2020-Present

Software Engineer

- Developing certification and training content delivery platform for Intel Cloud using Django, REST APIs, and MongoDB.
- Familiar with usage of Kaniko, Docker and Kubernetes.
- Developed a disk space monitoring tool using Python, Pytorch and implemented trash collector to reclaim gigabytes of disk space daily.
- Improved disk selection algorithm for release of tool versions across Intel enabling effective disk space utilization.
- Designed and developed an application to download tools from NFS using Flask.
- Led Perforce depot support integration in tool release, versioning, and deployment application.
- Working on migration of Converged Release Tool from Teamforge to Github. It includes migration of permissions, notifications, repositories, and code reviews.

Software Engineer Intern

May 2019-August 2019

- Developed a dashboard for centralized tool deployment and release application using Python Tkinter.
- Developed RESTful web services to retrieve data from HSDS Database.

New York Life Insurance Company (R & D), New York City, New York

June 2018-December 2018

Software Engineer Co-op/Intern

- Designed and developed a web application to automate data-related changes to nylinsure.com domain websites using React and Redux for frontend and Spring MVC, RESTful APIs, and PostgreSQL for the backend.
- Integrated Keycloak with Spring Security for user authentication and created a dashboard for user management.
- Developed a simplified JSON driven rules engine using Java to replace Drools Business Rules Management System.

TIAA, Mumbai, India

October 2016-June 2017

Software Developer

- Implemented distributed cache using Oracle Coherence in-memory data grid to improve the performance of insurance claims data processing web application.
- Led the development of a carpooling web application for TIAA, Mumbai employees using Spring Boot and MongoDB.

TATA Consultancy Services, Pune, India

March 2013-September 2016

Software Developer

- Implemented SMS notification system for the Vodafone 4G data plan offers using JMS API.
- Developed Customer Acquisition System using Java and MySQL for Vodafone RED family plan used by 14 million subscribers.

ACADEMIC PROJECTS

Finding Similar Files Using MapReduce-Dell Data Domain Research Project

September 2019-December 2019

- Implemented hierarchical clustering using Spark/Scala to find similar files in a massive dataset of 100K-100TB for 100M-1B files.
- Worked on performance optimization using MinHash, Batch processing, and parallelization in Spark.
- Packaged application in a docker container image and deployed it on Kubernetes cluster.

Design & Share App

September 2019-December 2019

- Developed an Image sharing and Interior Design Android app using Java, Firebase, and Google's ARCore.

Restaurant Aspect Rating Prediction-Yelp Dataset

January 2019-April 2019

- Used Stanford CoreNLP and spaCy to extract features from restaurant reviews. Developed sophisticated features like aspect scores using AFINN lexicon for aspects like ambiance, hygiene, food, service, and cost.
- Developed machine learning models using scikit-learn and performed sentiment analysis for star rating prediction.

Plagiarism Check

January 2018-April 2018

- Developed a web application using Java to detect plagiarism in student assignment submissions through Git repository.
- Implemented Abstract Syntax Tree based code comparison algorithms using ANTLR Python Grammar.

TECHNICAL SKILLS

Languages: Python, Java, Perl, SQL

Web Technologies: JavaScript, React, Redux, NodeJS, RESTful Web Services, Hibernate, Spring, Django, Flask, JSON

Software/Tools: PyCharm, Git, JIRA, Gradle, AWS EC2, Heroku, Nginx, Scikit-learn, NLTK, PyTorch, Kubernetes, Docker

Databases: MySQL, PostgreSQL, MongoDB