

NIRUPAMA SHARMA

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EDUCATION

Northeastern University, Boston, MA

September 2017-Present

Master of Science in Computer Science, GPA: 3.33

Expected Graduation: December 2019

Courses: Programming Design Paradigm, Robotic Science and Systems, Algorithms, Managing Software Development, Game Artificial Intelligence, Natural Language Processing

Rajasthan Technical University -Engineering College, Ajmer, India

June 2012

Bachelor of Technology (Honors) in Computer Science & Engineering, GPA: 3.67

Courses: Database Management Systems, Data Structures, Compiler Construction, Operating Systems, Object Oriented Programming

TECHNICAL SKILLS

Languages: Java, Python, Perl, C#, C++, C, SQL

Web Technologies: JavaScript, React, Redux, NodeJS, RESTful Web Services, Hibernate, Spring, Django, JSON, HTML5, CSS3

Software/Tools: IntelliJ, Git, Tomcat, WildFly, JIRA, Jenkins, Gradle, Maven, AWS EC2, Heroku, Nginx, Scikit-Learn, Keras, Pytorch

Databases: Oracle Database, MySQL, PostgreSQL, MongoDB

Operating Systems: Windows, Linux, Mac OS X

WORK EXPERIENCE

Intel Corporation, Hillsboro, Oregon

May 2019-Present

Software Engineer Intern

- Developing a file sharing application to be delivered worldwide using Python and Perl.

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 nylinure.com domain websites using React and Redux for frontend and Spring MVC 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 cache using **Oracle Coherence in-memory data grid** to improve the performance of file hub web application for storing and retrieving files.
- Led development of a carpooling system for TIAA, Mumbai employees using Spring Boot and MongoDB.

TATA Consultancy Services, Pune, India

March 2013 -September 2016

Systems Engineer

- Implemented SMS notification system for the Vodafone 4G data plan using JMS Publish/Subscribe Model.
- Developed Customer Acquisition System using JSF and MySQL for Vodafone RED family plan used by **14 million subscribers**.

COURSE PROJECTS

Plagiarism Check

January 2018-April 2018

- Implemented Abstract Syntax Tree based code comparison algorithms using **ANTLR** Python Grammar.

Robotics Motion Planning

November 2017-December 2017

- Used Peter Corke's MATLAB robotics toolbox to implement PRM (Probabilistic Roadmap) and RRT (Rapidly-exploring Random tree) algorithms for Puma 560 with six link robot arm in multi obstacle configuration space.

Aspect Based Sentiment Analysis for Restaurant Reviews using Yelp Dataset

January 2019-April 2019

- Used Stanford CoreNLP to extract features from reviews. Created sophisticated features like aspect scores using AFINN lexicon for aspects like ambiance, hygiene, food, service, and cost.
- Developed models using scikit-learn and performed experiments with various features for star rating prediction.

Drogon Escape

January 2019-April 2019

- Developed an AI for Drogon to escape obstacles in a game using Q-Learning and Recurrent Neural Network.

INDIVIDUAL PROJECTS

Design & Share

June 2018-Present

- Developed a web application for sharing home and landscape design images and DIY ideas using MongoDB, Spring, React, and Redux. (<http://www.designandshare.info>)

ACTIVITIES

SheHacks Boston

- Developed a disaster management **Android** app for sending push notifications using **Google Cloud Messaging (GCM)** during an emergency.

NUWIT (Northeastern University Women in Technology)

- Volunteered for Northeastern University Women in Technology.