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, 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, GPA: 3.67
Courses: Database Management Systems, Data Structures, Compiler Construction, Operating Systems, Object Oriented Programming

TECHNICAL SKILLS

Languages:	Python, Java, C#, C++, C, SQL
Web Technologies:	JavaScript, React, Redux, NodeJS, RESTful Web Services, Hibernate, Spring, Django, Flask, JSON
Software/Tools:	IntelliJ, Git, Tomcat, JIRA, Jenkins, Gradle, Maven, AWS EC2, Heroku, Nginx, Scikit-learn, NLTK, PyTorch
Databases:	MySQL, PostgreSQL, MongoDB

WORK EXPERIENCE

Intel Corporation, Hillsboro, Oregon May 2019-Present
Software Engineer Intern
- Developed a dashboard for centralized tool deployment and release application at Intel using Python.
- Developed RESTful web services to retrieve data from Intel HSD ES system.
- Designed and developed a web application to download tools from Intel NFS to the desktop using Flask framework.

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

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.

Drogon Escape January 2019-April 2019
- Built an AI for Drogon to escape from obstacles in a game using Q-Learning, Markov Model, and Recurrent Neural Network.

Plagiarism Check January 2018-April 2018
- Developed a web application using Java and JGit to detect plagiarism in student assignment submissions through Git repository.
- 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.

INDIVIDUAL PROJECTS

Design & Share June 2018-Present
- Developed a web application for sharing home interior and landscape design images using MongoDB, Spring, RESTful web services, React, and Redux. (http://www.designandshare.info)

ACTIVITIES

SheHacks Boston
- Built a disaster management Android app for sending push notifications using Google Cloud Messaging during an emergency.

Global Student Mentor, Northeastern University
- Mentored 10 international students at Northeastern University.