

NIRUPAMA SHARMA

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Available: May-August 2019

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

Rajasthan Technical University -Engineering College, Ajmer, India

June 2012

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

TECHNICAL SKILLS

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

Web Technologies: React, Redux, Express.js, Node.js, Vue.js, RESTful Web Services, Hibernate, Spring MVC, Spring Boot, Django, Ruby on Rails, JSON, HTML5, CSS3

Software/Tools: IntelliJ, SQL Developer, mLab, SVN, Git, Tomcat, WildFly, JIRA, Jenkins, ANTLR, Gradle, Maven, AWS EC2, Heroku, Kafka, Nginx

Database: MySQL, PostgreSQL, HBase, MongoDB

WORK EXPERIENCE

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

June 2018 -Present

Software Engineer Co-op/Intern

- Designed and developed a web application to automate 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.
- Created **REST APIs** supporting JSON data format using **Spring** and **PostgreSQL**.
- Developed a simplified **JSON** driven **Rules Engine** using **Java** to replace **Drools Business Rules Management System**.

TIAA (formerly TIAA-CREF), Mumbai, India

October 2016 -June 2017

Software Developer

- Responsible for setting up File hub team at TIAA India.
- Conducted knowledge transfer sessions for incoming team members.
- Implemented cache using **Oracle Coherence in-memory data grid** to improve the performance of file hub web application for storing and retrieving files.
- Developed bots to automate file verification using **Python** and **TensorFlow**.
- Used **Mockito** for code coverage.
- 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**.
- Replaced **IBM WebSphere Process Server** with **Java** code in Vodafone postpaid web application for mobile SIM activation.

COURSE PROJECTS

Plagiarism Check

January 2018-April 2018

- Developed software 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.
- Performed statistical analysis of runtime performance of PRM and RRT.

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.