

## NIRUPAMA SHARMA

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Available: May-August 2019

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### PROFESSIONAL SUMMARY

Dynamic Software Engineer with an aptitude for innovation, problem-solving, and a passion for learning new technologies. Having 4 years of experience in Web Development. Proven track record of designing and implementing flexible solutions which include frequent UI and backend changes. Strengths include:

- **Agile/Scrum Methodology**
- **Object-Oriented Programming**
- **Program Logic & Optimization**
- **Service Oriented Architecture**
- **Unit Testing and Debugging**
- **Web Development**

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### EDUCATION

**Northeastern University, Boston, MA**

**College of Computer and Information Science**

September 2017-Present

*Candidate for a 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

**Rajasthan Technical University -Engineering College, Ajmer, India**

June 2012

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

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### TECHNICAL SKILLS

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

**Web Technologies:** React, Redux, Express.js, Node.js, Rest Web Services, SOAP Web Services, Hibernate, Spring MVC, Spring Boot, JSF, Ajax, JSON, HTML5, CSS3

**Software/Tools:** IntelliJ, Spring Tool Suite, SQL Developer, MATLAB, SVN, Apache Tomcat, Git, WildFly, JIRA, Jenkins, ANTLR, SonarQube, Gradle, Maven, AWS EC2, Heroku, mLab

**Database:** Oracle Database 12c, MySQL, PostgreSQL, MongoDB

**Operating Systems:** Windows 7/8/10, Ubuntu, Mac OS X

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### WORK EXPERIENCE

**New York Life Insurance Company, New York City**

June 2018 -Present

Software Engineer Co-op/Intern

**Technical Scope:** React, Redux, Express.js, Java, Spring MVC, Hibernate, MongoDB

- Developing a web application to automate changes to nylinure.com domain websites like <https://ama.nylinure.com>. The application implements three levels of authentication from business users to developers before the changes go live.

**TIAA (formerly TIAA-CREF), Mumbai**

October 2016 -June 2017

Analyst, Software Developer

**Technical Scope:** Java, Spring MVC, Hibernate, Mockito, Python, TensorFlow, Oracle Coherence, AngularJS, SQL

- Developed file hub web application using Spring framework which validates insurance files of customers and handles various money related transactions.
- Developed bots to automate file verification using Python and TensorFlow.
- Spearheaded development of a carpooling system for TIAA, Mumbai employees using Spring Boot and MongoDB.

**TATA Consultancy Services, Pune**

March 2013 -September 2016

Systems Engineer

**Technical Scope:** JSF, Java, Spring MVC, Hibernate, JUnit, EDW, JMS, Web Services(Restful)

- Developed a tool to generate Insurance Agents' Course Compliance reports.
- Developed **SMS (Short Message Service) notification system** for 4G data plan recharge benefit scheme for Vodafone using JMS Publisher/Subscriber Model.
- Designed and developed Customer Acquisition System UI and backend for **Vodafone RED family plan** in India.
- Designed and developed a cost-effective application for **SIM (Subscriber Identity Module)** activation, which replaced IBM WebSphere Process Server in the existing application.

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### PROJECTS

**Design & Share web application**

June 2018-Present

Developed a web application for sharing home and landscape design images and DIY ideas using MongoDB, React, and Redux. (<https://designandshare.herokuapp.com>)

**Plagiarism Detection using Abstract Syntax Tree Algorithms**

January 2018-April 2018

Implemented Abstract Syntax Tree algorithms using ANTLR Python Grammar to detect plagiarism in student assignment submissions using Git repository.

**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 and performed statistical analysis of runtime performance of PRM and RRT.

**INTERESTS**

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Badminton, Dramatics, Zumba