

# Pranjal Suresh Karankar

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## SUMMARY

Software Engineering Graduate student with 1+ years of professional experience in application development. Proficient in **Java**, **Spring Boot**, **REST**, **Microservices** and JavaScript frameworks like **Node.js**, **Express**, **Vue.js**. Hands on experience in **distributed computing** using **Hadoop HDFS**, **Map Reduce** and **Spark**. Adept in **Relational** and **NoSQL** database management systems.

## EDUCATION

<b>Master of Science, Software Engineering</b>	05/2018 (Expected)
Arizona State University, USA	GPA: 3.67/4.00
<b>Bachelor of Engineering, Electronics &amp; Telecom.</b>	05/2015
University of Pune, India	GPA: 3.70/4.00

**Courses:** Blockchain Essentials (IBM), Bitcoin and Cryptocurrency (Coursera), Web Applications-Mobile Systems, Semantic Web, Data Structures and Algorithms, Database Management Systems, Distributed Software Development, Software Enterprise (Data Science)

## TECHNICAL SKILLS

<b>Languages</b>	Java, JavaScript, C#, Python, SQL
<b>Databases</b>	Relational (MS SQL Server, PostgreSQL), NoSQL (MongoDB, Neo4j)
<b>Web Technologies</b>	Node.js, Express, Spring Boot, Vue.js, Angular, ASP.NET, WCF, SOAP, REST, HTML, CSS
<b>Miscellaneous</b>	Hadoop HDFS, Map Reduce, Apache SparkCore, Maven, Junit, Jenkins, Git, JIRA, Agile (Scrum)

## WORK EXPERIENCE

<b>Information Systems Student Developer</b> , Arizona State University, USA [ <i>Java, Spring Boot, Vue.js, jQuery</i> ]	10/2016 - 01/2018
<ul style="list-style-type: none"><li>Initiated single-page application development using Vue.js for strategic prioritization of business projects</li><li>Developed REST microservices using Spring Boot to perform data access operations with SQL server database</li><li>Developed new features and troubleshoot bugs in the University Online Application System of Arizona State University</li><li>Designed templates using VBScript for automatic data population in OnBase which improved the transcript verification time by 60%</li></ul>	
<b>Associate Software Engineer</b> , Accenture, India [ <i>C#, SQL, SQL Server, ASP.NET</i> ]	06/2015 - 06/2016
<ul style="list-style-type: none"><li>Created SQL stored procedures and SQL Server agent job for splitting and distribution of product-customer planning data</li><li>Revamped legacy stored procedures using query optimization and indexing which reduced execution time of a SQL job by 50%</li><li>Mentored trainee associates in understanding the system and performed pair programming and code review to boost their efficiency</li><li>Achieved Top Performer award during Accenture's Green Field training for N-tier application development using ASP.NET</li></ul>	
<b>Software Intern</b> , Twinkle IT Solutions, India [ <i>C#, ASP.NET, Bootstrap, HTML5, CSS3</i> ]	02/2015 - 04/2015
<ul style="list-style-type: none"><li>Developed student/school registration and grade appeal modules in EQueue Online Exam application using ASP.NET</li><li>Co-authored 100+ pages of software specification and development guideline documents, still in use for internal communication</li></ul>	

## ACADEMIC PROJECTS

<b>Show Me: Related Research</b> [ <i>Node.js, Vue.js, MongoDB, Neo4j, Scrum</i> ]	10/2017 - Present
<ul style="list-style-type: none"><li>Developing RESTful application which exhibits relationships of related research and scholarly articles stored in Neo4j Graph database</li><li>Incorporating graph visualization, open authentication, authorization, crowdsourced comments and upvote features</li><li>Spearheaded single page application development using Vue.js and performed <u>Unit Testing</u> using <u>Mocha</u>, <u>Chai</u> and <u>Karma</u></li><li>Assumed <u>Scrum Master</u> role and facilitated scrum ceremonies such as user stories, sprint planning, retrospectives, and stand-ups</li></ul>	
<b>Geospatial Analysis in Distributed Computing</b> [ <i>Java, Hadoop HDFS, Apache Spark, AWS</i> ]	01/2017 - 04/2017
<ul style="list-style-type: none"><li>Performed geospatial analysis on New York Taxi trip dataset stored in Hadoop HDFS cluster of AWS EC2 instances</li><li>Transformed data using JavaRDD and JavaPairRDD libraries to calculate z-scores of each cell represented in 3D space-time grid</li><li>Computed 50 statistically significant hotspots in the dataset with 100% accuracy</li></ul>	
<b>Graph DBMS Implementation</b> [ <i>Java, Minibase RDBMS, Graph DB</i> ]	01/2017 - 04/2017
<ul style="list-style-type: none"><li>Developed a non-native graph database management system using relational engine of Minibase and formulated unit test cases</li><li>Implemented Z-order indexing on high dimensional data (5D) and B-tree indexing on single dimensional attributes</li><li>Implemented nested loop and sort merge join for optimization of Node/Edge queries and path expression query plans</li></ul>	

## ACTIVITIES

- Member and Developer at Blockchain Innovation Society, Arizona State University