Pranjal Suresh Karankar

pranjalkarankar20@gmail.com **|** https://github.com/pranjalsk **|** www.linkedin.com/in/pranjalk20 **|** +1 (480) 494 1580

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

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

Courses: Blockchain Essentials (IBM), Web Applications-Mobile Systems, Semantic Web, Data Structures and Algorithms, Database Management Systems, Distributed Software Development, Software Enterprise (Data Science), Operating Systems, Computer Networks

TECHNICAL SKILLS

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

WORK EXPERIENCE

Information Systems Student Developer, Arizona State University, USA *[Java, Spring Boot, Vue.js, jQuery]*   10/2016 - 01/2018
- Initiated single-page application development using Vue.js for strategic prioritization of business projects
- Developed REST microservices using Spring Boot to perform data access operations with SQL server database
- Developed new features using JSP/Servlets and troubleshot bugs in the Online Application System of Arizona State University
- Designed templates using VBScript for automatic data population in OnBase which improved the transcript verification time by 60%

Associate Software Engineer, Accenture, India *[C#, SQL, SQL Server, ASP.NET]*   06/2015 - 06/2016
- Created SQL stored procedures and SQL Server agent job for splitting and distribution of product-customer planning data
- Revamped legacy stored procedures using query optimization and indexing which reduced execution time of a SQL job by 50%
- Mentored trainee associates in understanding the system and performed pair programming and code review to boost their efficiency
- Achieved Top Performer award during Accenture's Green Field training for N-tier application development using ASP.NET

Software Intern, Twinkle IT Solutions, India *[C#, ASP.NET, Bootstrap, HTML5, CSS3]*   02/2015 - 04/2015
- Developed student/school registration and grade appeal modules in EQue Online Exam application using ASP.NET
- Co-authored 100+ pages of software specification and development guideline documents, still in use for internal communication

ACADEMIC PROJECTS

Show Me: Related Research *[Node.js, Vue.js, MongoDB, Neo4j, Scrum]*   10/2017 - Present
- Developing RESTful application which exhibits relationships of related research and scholarly articles stored in Neo4j Graph database
- Incorporating graph visualization, open authentication, authorization, crowdsourced comments and upvote features
- Spearheaded single page application development using Vue.js and performed Unit Testing using Mocha, Chai and Karma
- Assumed Scrum Master role and facilitated scrum ceremonies such as user stories, sprint planning, retrospectives, and stand-ups

Geospatial Analysis in Distributed Computing *[Java, Hadoop HDFS, Apache Spark, AWS]*   01/2017 - 04/2017
- Performed geospatial analysis on New York Taxi trip dataset stored in Hadoop HDFS cluster of AWS EC2 instances
- Transformed data using JavaRDD and JavaPairRDD libraries to calculate z-scores of each cell represented in 3D space-time grid
- Computed 50 statistically significant hotspots in the dataset with 100% accuracy

Graph DBMS Implementation *[Java, Minibase RDBMS, Graph DB]*   01/2017 - 04/2017
- Developed a non-native graph database management system using relational engine of Minibase and formulated unit test cases
- Implemented Z-order indexing on high dimensional data (5D) and B-tree indexing on single dimensional attributes
- Implemented nested loop and sort merge join for optimization of Node/Edge queries and path expression query plans

ACTIVITIES

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