

# PUSHKAR NARENDRA LADHE

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## SUMMARY

A Software Engineer with 2+ years of professional experience in robust **RESTful APIs/Microservices** development using **Java, Guice, Beadledom, Spring, Hibernate** and **Rails**. Proficient in building and designing microservices ecosystem for **Big Data Ingestion** to **HDFS** and **Kafka**. Also, having advanced knowledge in **distributed computing** using **Hadoop Ecosystem**.

## EDUCATION

**Arizona State University, USA**

**GPA: 3.53**

**Master of Science, Software Engineering**

**08/2016 – 05/2018**

**University of Mumbai, India**

**GPA: 3.75**

**Bachelor of Engineering, Computer Engineering [Distinguished Honors Student]**

**08/2010 – 06/2014**

Coursework: Advanced Data Structures, Analysis & Design of Algorithms, Distributed Data Systems, Web Applications and Mobile Systems, Semantic Web, Cloud Computing & Big Data (Hadoop – MapReduce), Database Management Systems, Data Mining, Software Security, Theory of Computer Science, Discrete Structures and Graph Theory, Operating Systems

## TECHNICAL SKILLS

**Languages:** Java, Ruby, Python, JavaScript, PHP, C++, HTML5, CSS3, Unix Shell Scripting

**Frameworks:** Spring, SpringBoot, Hibernate, Guice, Express, Rails, Grape, Spark, MapReduce, Kafka, OAuth2, REST, Microservices

**Databases:** MySQL, MongoDB, Neo4j, Oracle, Postgres, HBase, Hive, Hadoop

**Platforms:** Docker, Marathon, DC/OS, Maven, Jenkins, Kubernetes, GitHub, Tomcat, Spinnaker, JIRA

## WORK EXPERIENCE

Software Engineer – Big Data Platforms, Cerner, MO [*Java, Guice, Hadoop, Spinnaker, Jenkins, Kafka, DC/OS*] **07/2018 – To Date**

- Designing and building dockerized microservices that ingests heterogeneous data to Cerner's datastore
- Developing Open APIs to publicly allow secure access to data ingestion platform's component microservices
- Engineered data ingestion microservices that allowed ingestion of textual EMR data in Cerner's HDFS storage
- Developed integration and load tests that allow testing of the API end points and make sure they adhere to standards
- Integrated the developed APIs with Spinnaker CI/CD pipelines for seamless continuous delivery
- Built API clients in Java and Ruby that allow secure access to component microservices from other internal services
- Performing periodic support/maintenance of legacy products while the consumers move to the newer implementations

Software Engineer Intern, ScaleArc Inc., CA [*JavaScript, Node, JQuery*]

**05/2017 – 08/2017**

- Developed ScaleArc's product download website that automated the ScaleArc download and installation
- Improved ScaleArc's front end unit test coverage that allowed thorough developer testing of the product

Assistant Software Engineer, TCSSL, India [*Java, Spring, Hibernate, SQL Server*]

**09/2014 – 08/2016**

- Worked on development of an insider trade surveillance system that catches suspicious trading activities
- Spearheaded the development of a new surveillance model that improved the quality of suspicious trading alerts
- Created build and execution scripts that reduced the deployment time of application from 50 minutes to 10-15 minutes

## ACADEMIC PROJECTS

Show Me: The Score Project [*Node.js, express.js, MongoDB, vue.js, Neo4j*]

**09/2017 – 05/2018**

[ <http://score-contest.org/2018/projects/showme.php> ]

- Worked as a Back-End API developer, to develop RESTful APIs to fetch graphs and relations for Show Me App from Neo4j
- Designed and developed the utility that crawls research data from websites and automatically generates graph in Neo4j
- Developed an algorithm that would score a paper based on its relevance to a specific field using the Google Scholar data

Geospatial Analysis of New York Yellow Cabs [*Java, Scala, HDFS, Spark*]

**01/2017 – 05/2017**

- Performed geospatial analysis on large spatial data stored in HDFS using Java, Scala and Apache Spark framework
- Customized and used the GeoSpark library for spatial data fragmentation and distributed query processing
- Analyzed different parameters like CPU time, memory utilization and individual node performance of Spark cluster
- The system can retrieve geographical hotspots in a locality based on the data available in HDFS

Secure file sharing using Attribute Based Encryption (ABE) [*Java*]

**06/2016 – 12/2016**

- Developed a security mechanism to provide secure file sharing in cloud-based platforms using ABE
- Improves upon current Attribute Based Encryption systems by adding an extra authentication Layer