

# Avanti Patil

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## EDUCATION:

### **Master of Science in Computer Science**

Northeastern University (NEU), Boston

**Sept 2014 - Dec 2016**

GPA - 3.79 (MS Community Service Award, MSCS,17)

### **Bachelor of Computer Engineering**

University of Mumbai, India

**May 2008 - June 2011**

(Scholarship. Graduated w/ Distinction)

## TECHNICAL SKILLS:

**Programming Languages:** Java, SQL, C, C++, PL/SQL, Python, HTML, JavaScript

**Databases:** Postgres, MySQL, Oracle

**Operating Systems:** Windows, Mac OS X, Linux, Android

**Frameworks/Technologies:** Spark, Play, Solr, Gradle, Angular, Flask, Hibernate, JUnit, Mockito, NodeJS

## WORK EXPERIENCE:

### **Wayfair, Search Platform - Software Engineer 2 [Java, Solr, Python, Docker, Kubernetes/k8s] Sept 2019 - Present**

- Learned and used docker and k8s to containerize 3 applications also added horizontal pod autoscaling and ingress.
- Suggested solr schema optimizations like using 'docValues' after testing out the changes and as a result of this we saw **reduced response time for 99th percentile requests by 500ms for updated indexes**.
- Performed **load testing** with real life traffic using kafka replay and mirror techniques and jmeter boxes for cyber 5
- Currently designing and developing an API layer for search as a service (Java) and upgrading to Apache solr 7.

### **Toast.inc – Software Engineer [Java, Spark, Android, Angular] Feb 2017 - Aug 2019**

- Designed and developed new pipeline to run spark jobs for Toast's first data analytics platform resulting in 90% improvement in time for report processing.
- Developed a Java microservice to send jobs to spark, built a customized Jenkins pipelines to build/deploy artifacts to the EC2 containers for the service and added functionality to prioritize spark jobs using job queue.
- Improved jacoco test code coverage from 33% to 50% code by adding unit tests and integration tests. Also audited and reduced time to run E2E automated selenium tests.
- Improved monitoring using Datadog and New Relic for better visibility into live systems vitals along with proactive alerting for spark and microservices while mentoring 5 interns in 2 years while managing day to day tasks.
- Worked on 2 different areas of product including analytics and labor-cash-payroll management

### **VMware.inc - Site Recovery Management Intern [C++, Python] May - Dec 2015**

- Designed & prototyped for Availability Zone REST API that allows multiple VMware DR solutions to operate in a cooperative fashion in Site Recovery Management 6.0 codebase using C++, Java frontend. Won a poster session.

### **NSE InfoTech Services Ltd. - Associate System Analyst [C, SQL, PL/SQL] Jul 2011 - Jun 2014**

- Designed and developed IRF/CD/FO risk mgmt. system with cutting edge technologies such as High performance computing in C using Message Passing Interface & Multithreading while working with cross-functional team of 12.

## PROJECTS:

### **Social Networking for projectfeed1010 [Python, OAUTH, Flask, Unittest, Neo4j]**

- Developed an efficient social networking site for ISB's aquaponics system users.
- Lead project in given timeline, interacting with four teams in two time zones & released to 100 users for beta test.
- Created & tested an API to fetch data from neo4j while considering scalability with growth of user base (~100k).

**ACTIVITIES:** Founder & President of NU Grad Women Coders and HackNEU Hackathon

**INTERESTS:** Traveling, Landscape Photography