

# 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)



LFD459: Kubernetes for App Developers

## TECHNICAL SKILLS:

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

**Databases:** Postgres, MySQL, Oracle 9i, 10g

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

## WORK EXPERIENCE:

**Wayfair, Search Platform - Software Engineer Team Lead [Java, Solr, Docker, Kubernetes] Sept 2019 - Present**

- Actively develop on Java codebase while leading, planning, mentoring and unblocking 3 teammates.
- Lead initiative to scale our infrastructure by splitting traffic in small clusters while migrating to Apache Solr 7 which has increased platform stability and 40% improvement in response times while ensuring.
- Optimized resource utilization and reduced GCP & GKE infrastructure cost by 30% with k8s and smaller clusters.
- Learned and changed 3 applications to use docker and Kubernetes with horizontal pod autoscaling which has reduced production incidents from 1/month to 0.
- Achieved 100% deploy time stability in k8s by optimizing the app to make use of k8s termination cycle.
- Performed load testing for capacity planning of new REST API in k8s using jmeter.
- Currently leading an effort to build a caching layer to store expensive aggregations required by search queries sent to a REST API layer which I have built from scratch called as framework agnostic search engines.

**Toast.inc – Software Engineer**

**[Java, Spark, Android, Angular]**

**Feb 2017 - Aug 2019**

- Worked on 2 different areas of product including Data analytics platform and labor-cash-payroll feature team.
- Designed and developed a Java microservice to send jobs to Spark for Toast's first data analytics platform resulting in 90% improvement in response time which runs in EC2 container, also added prioritization for jobs processing.
- Improved jacoco test coverage from 33% to 50% code by adding unit tests and integration tests and 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.

**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 a cross-functional team of 12.

## PROJECTS:

**Social Networking for projectfeed1010**

**[Python, OAUTH, Flask, Unittest, Neo4j]**

- Created an efficient social networking Website for ISB's aquaponics system users while building REST API which fetches and stores data into neo4j, while ensuring app scales well in future.
- Lead project in given timeline, interacting with four teams in two time zones & released to 100 users for beta test.

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

**INTERESTS:** Mentoring, Traveling, Painting, Landscape Photography and Volunteering to help the community.