

# Avanti Patil

+1-(617)-800-3400 | avantipatil.me@gmail.com | Boston, MA, USA

<https://avantiwhenever.github.io> | <https://github.com/patilav> | <https://www.linkedin.com/in/avantipatil>

## 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 2 & Team Lead [Java, Solr, Docker, Kubernetes] Sept 2019 - Present**

- I code 70% of the time, rest of the time is spent on planning, streamlining, mentoring and unblocking 3 teammates.
- Lead & actively developed to scale our infrastructure by splitting traffic to clusters while migrating to Apache Solr 7 which has increased platform stability and response times have dropped by 40% while allowing flexibility to manage resources and reduce infrastructure cost by 30%.
- Learned and changed 3 applications to use docker and Kubernetes with horizontal pod autoscaling this reduced production incidents from 1/month to 0, also optimized resources utilization reduced GCP infrastructure cost by 50%
- Performed load testing for capacity planning of new REST API in k8s using jmeter and kafka replay and mirror.
- Currently leading an effort to develop and integrate a REST API layer for search as a service (Java) which is search framework agnostic, while working with a cross-team collaboration effort within the company.

**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, Teaching, Traveling, Landscape Photography, Volunteering for helping community building