

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 worked 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,
- 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.
- 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