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	**Sept 2014 - Dec 2016**	
Northeastern University (NEU), Boston	GPA - 3.79	
	(MS Community Service Award, MSCS,17)	

LFD459: Kubernetes for App Developers

Bachelor of Computer Engineering　　　**May 2008 - June 2011**
University of Mumbai, India　　　(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 & Team Lead   [Java, Solr, Docker, Kubernetes] Sept 2019 - Present
• Learned and used docker and k8s to containerize 3 applications also added horizontal pod autoscaling and ingress.
• 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.
• Leading an effort to scale our infrastructure by splitting traffic to clusters by use case to increase platform stability.

Toast.inc – Software Engineer   [Java, Spark, Android, Angular]   Feb 2017 - Aug 2019
• Designed and developed a 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 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