Avanti Patil

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Portfolio: https://patilav.github.io | Github: https://github.com/patilav | LinkedIn: https://www.linkedin.com/in/avantipatil

OBJECTIVE: I am looking for full-time software engineer job opportunities starting from Jan 2017.

EDUCATION:

Northeastern University (NEU), Boston, MA

GPA: 3.79/4.0

Sept 2014-Dec 2016

Master of Science in Computer Science

Related courses: Algorithms, Advanced software development, Web development, Human Computer Interaction,

Computer Systems, Distributed systems, Database Management System

University of Mumbai, Mumbai, India

June 2011

Bachelor of Computer Engineering (Graduated w/ Distinction - Received J. R. D. TATA Scholarship)

TECHNICAL SKILLS:

Languages: Java, C, C++, Python, Linux & Unix shell Scripting, C#, SQL, PL/SQL, HTML, JavaScript, Bootstrap Frameworks: AngularJS, Node.is, Flask, Spring MVC, Struts 2, ASP.Net, Message Passing Interface, Android Oracle 9i, Oracle 10g, MS SQL Server, MS-Access, IBM DB 2, MongoDB, Neo4j graph database

Tools & Version control: Git, Subversion, Jira, Confluence, Bitbucket, TeamCity, Asana, Trello, Slack

WORK EXPERIENCE:

Northeastern University

Jan - May 2015

Teaching Assistant - Web Development

Graded and redesigned the coursework with Professor and Hosted TA sessions for guiding students on debugging code and solving problems on Mongo dB, Angular, Node.is.

VMware.inc, Cambridge, MA, USA

May - Dec 2015

Site Recovery Management Intern & VMware Intern Prodigy for Northeastern University

- Designed an Availability Zone API that allows multiple VMware DR solutions to operate in a cooperative fashion.
- Developed a python script to scale test SSL authentication token service for an internal project with maintained wiki. 0
- Presented Availability zones project and won Cambridge poster session for the same and attended VMWorld conf.

NSE InfoTech Services LTD, Mumbai, India

Jul 2011 - Jun 2014

Associate System Analyst

- Developed 4 major time critical projects using Java, RMI and Oracle 10g in 2 years and awarded 2 recognitions
- Created a frontend to show user portfolios by fetching data from in-memory hash tables in shared memory.
- Worked on benchmarking data flow via TCI/IP socket connection and optimized risk mgmt. system to get increased computing efficiency (50%) & higher trade processing rate (30%) using MPICH & C.

PROJECTS:

FUSE file system (C, Valgrind, Shell Scripts)

Dec'16 NEU, MA

Created a File system in User Space for handling general purpose file commands in C while handling direct and indirect data blocks on user generated disk images. Tested fuse code with bash scripts with 90% test coverage.

Social Networking for projectfeed1010 (Python, OAUTH, Flask, Unittest, Neo4j)

NEU, MA

- Developed an efficient social networking site for ISB's acquaponics system users with a self-organizing team of 6 people. Lead project in given timeline while interacting with 4 teams in 2 time zones & released to 100 users for beta testing. 0
- Created and tested an API for fetching data from neo4j while considering scalability with growth of user base (~100k).
- Generated unit test suites as well as integration tests and code coverage of 90%+ in each agile sprint.

Availability Zones (C++, VMODL, Java, Python)

VMware.inc, MA May-Dec'15

- Availability Zone which describes both the topology of storage replication (vSphere replication and Array-based replication) as well as the sites (be vCenter Server or a vDC in vCloud Air) that are enabled with DR capabilities
- Availability Zone API allowed same workloads to be mobilized (recovered) to different sites by different DR products such as SRM and/or DR2C which was thoroughly tested with Jenkins and code was reviewed by SRM team
- Worked with a mentor and a world class disaster recovery solution team to build a prototype for creating Availability Zone API in Site Recovery Management 6.0 codebase using C++ and Java frontend and collected results

Integrated Voluntary closeout and Risk management system (C, MPI, SQL, Java)

Sep'13 - Jun'14

- Developed an integrated risk management system for order and trade computation using parallel processing in C, MPICH and LBM29 west multicast protocol on multicore processors in Linux environment.
- Designed highly effective architecture for fair utilization of the CPU and I/O with shared memory and priority queue.

INTERESTS AND ACTIVITIES:

Founder & President of NU Grad Women Coders and HackNEU Hackathon @NEU