

Avanti Patil

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OBJECTIVE: I am looking for full-time backend software engineer job opportunities starting from Jan 2017. Ongoing projects include shingled magnetic recording project and contribution to a book on programming models for distributed computing.

EDUCATION:

Northeastern University (NEU), Boston, MA

GPA: 3.9/4.0 **Sept 2014-Dec 2016**

Master of Science in Computer Science @College of Computer and Information Science

Related courses: Algorithms, Computer Systems, Advanced software development, Web development, Human Computer Interaction, Database Management System, Distributed computing

University of Mumbai, Mumbai, India

June 2011

Bachelor of Computer Engineering (Graduated w/ Distinction - Top 10% - Awarded J. R. D. TATA Scholarship for academic excellence)

TECHNICAL KNOWLEDGE:

Languages: C, Java, C++, Python, Linux Scripting, SQL, PL/SQL, HTML, JavaScript, AngularJS, Bootstrap, Node.js, C#

Frameworks: ASP.net, Message Passing Interface using TCP/IP and Shared Memory, Epsilon, VMODL

Databases: Oracle 9i, Oracle 10g, MS SQL Server, XML, MS-Access, IBM DB 2, MongoDB, Neo4j

WORK EXPERIENCE:

1. Business Analyst Intern @ Massachusetts Bay Transportation Authority (MBTA) Jul - Sep 2016

- Worked on fit gap analysis for reimplementation of PeopleSoft 9.2, Documented current state of Benefits, Training & HR department and Implemented best practices in Agile - Scrum using Trello and Slack for team of 6.

2. Volunteer Software developer @ Code for Boston, MA, USA May - Sep 2015

- Designed and developed a map based secure dashboard **Cornerwise** for keeping people updated about the zoning changes in Massachusetts using HTML5, Bootstrap, backbone.js, leaflet and Docker.

3. Site Recovery Management Intern @ VMware.inc, Cambridge, MA, USA May - Dec 2015

- Worked on project **Availability Zone** and **won Cambridge poster session** for the project and **attended VMworld'15 as a reward**.
- Provided useful insights to VMware Campaign as a VMware Intern prodigy for NEU and hosted tech talk at NEU.

4. Associate System Analyst @NSE InfoTech Services LTD, Mumbai, India Jul 2011 - Jun 2014

- Designed and developed 3 projects simultaneously within the first 2 years and awarded 2 recognitions
- Mentored 3 campus recruits in Parallel Risk Management System Team (Futures & Options, Currency Derivatives, Debt market)
- Implemented risk management system for weekly expiry contracts using message passing interface in C and Oracle 10g
- Optimized current system to get 50% increase in computing efficiency and 30% higher trade processing rate with MPICH2 and C

PROJECTS:

1. Availability Zone (C++, VMODL, Site recovery Management 6.0, vSphere client) VMware.inc, MA May - Dec 2015

- Designed a new topology to ensure multiple availability products of VMware can support the disaster recovery of the same VM.
- Implemented AZ topology in Site Recovery Management 6.0 codebase as a proof of concept
- Contributed to pyVmomi @ VMware - added and fixed the utilities at platform level

2. Integrated Voluntary closeout and Risk management system (C, Message Passing Interface, SQL) NSETech Sep 2013 - Jun 2014

- Developed an integrated risk management system for order and trade computation using parallel processing using C, Message Passing Interface with shared memory and LBM29 west multicast protocol on Linux machines.
- 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 & Lead Organizer for HackNEU 2017 Hackathon @Northeastern**

- Boston Augmented Reality/Mixed Reality meetup Volunteer
