Abhishek Parekh

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OBJECTIVE

Seeking internship opportunity in Software and IT industry where my java programming and problem solving skills will help in solving industrial problems during summer 2019.

EDUCATION

Master of Science in Computer Science   May 2020

University of Florida, Gainesville, FL, USA

Relevant Coursework: Cloud Computing and Storage, Analysis of Algorithms, Advanced Data Structures.

Bachelor of Engineering (Hons.) in Computer Science   May 2018

BITS Pilani, Rajasthan, India

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Operating Systems.

SKILLS

- ***Technical Certifications***
    - AWS Certified Solutions Architect Associate
    - AWS Certified Developer Associate
    - Oracle Certified Professional Java SE 8 Programmer
    - Oracle Certified Associate Java SE 8 Programmer
- ***Technical Proficiency***: Java SE 8, Docker, Kubernetes, AWS EC2, AWS S3, AWS SQS, AWS DynamoDB, Apache Spark, C/C++, JDBC, YAML, JSON.

RELEVANT EXPERIENCE

Software Development Engineering Intern   Jul 2017 - Dec 2017

Dell EMC Corp, Bangalore, India

- Designed and developed next Generation SMARTS product to overcome the limitations of existing infrastructure.
- Using Kubernetes and Docker adapted the microservices architecture for highly available, fault tolerant and scalable application
- Deployed apache spark application using kubernetes as cluster manager to increase efficiency as compared to Hadoop YARN and Apache Mesos.

Software Development Engineering Intern   May 2016 - Jul 2016

Essar Power Gujarat Limited, Gujarat, India

- Developed a web application using ASP .NET and C# .NET to implement digitization of ISO documents at Essar Power Learning Centre.
- Designed database schema for MS SQL Server to efficiently store and retrieve employee records.
- Created interactive and responsive web application using HTML5, CSS3 and JS for front end user interface.

RESEARCH EXPERIENCE

Research Project Assistant   Jan 2018 - May 2018

INSPIRE Lab, BITS Pilani, Rajasthan, India

- Created an application to improve the efficiency of existing gossip based routing algorithms in delay tolerant networks.
- Using real time online simulations proved that after reaching a critical value further increasing message TTL or gossip ratio does not optimize the network transmissions, average delay or delivery ratio.

Research Project Assistant   Jan 2018 - May 2018

SDN Lab, BITS Pilani, Rajasthan, India
- Created an efficient application to mitigate DNS Amplification Attacks in SDN Environment.
- Using programmable flow rules in OpenFlow Switches reduced the number of bogus requests to less than 5%.
- Overcame previous limitations of existing DAAD system like scalability and memory overheads.

Research Project Assistant   Jan 2017 - May 2017

INSPIRE Lab, BITS Pilani, Rajasthan, India
- Worked towards developing an optimal path planning algorithm for multi robot systems in unknown terrain by creating a test bed using java AWT and Swing.
- Worked towards studying optimal peer to peer communication in delay tolerant networks using ZigBee protocol and developed a java GUI chat application.

LEADERSHIP AND INVOLVEMENT

Joint Secretary   Aug 2016 - Jul 2017

Gurjari Cultural Association, BITS Pilani, Rajasthan, India
- Managed various cultural events including cultural night, annual food festival and choreographed dance performances.
- Lead the marketing and sponsorship team to generate revenue for the organization.