GURUPAD HEGDE

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EDUCATION

Master of Science in Computer Science - University of Florida, Gainesville, Florida, USA

Courses - Cloud Computing, Distributed Operating Systems, Advanced Data Structures   GPA: 3.83/ 4

Bachelor of Engineering in Information Science & Engg - M S Ramaiah Institute of Technology, Graduated: May
Bengaluru, India   2015

Courses - Data Structures, Foundations of Algorithms, OOP with C++ & Java, Operating Systems   GPA: 3.57/ 4

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, Typescript, Elixir, Java
- Databases: MySQL, MongoDB
- Operations: AWS (EC2, EMR, S3), Git, JIRA, Docker, Nginx
- Frameworks/APIs: Django, Flask, Angular7, Phoenix

EXPERIENCE

Software Engineer, Akamai Technologies, Bengaluru, India   Oct 2015 - July 2018
- Designed a tool in Python for sending and tracing various types of requests to CDN servers. Tool is used across teams.
- Designed and developed libraries in Perl which reduced manual efforts and made release testing 0.4X faster.
- Integrated celery with existing Django app to run periodical tasks.
- Developed stand alone python scripts to auto generate results for DDC log verification process which made a positive impact on DDC side of pipeline by removing the need to extract information from large data.
- Involved in development of crucial features for monitor tool to find process crashes and extensively used python for developing the modules for the same.

Software Engineering Intern, Akamai Technologies, Santa Clara, CA   May 2019 - Aug 2019
- Developed Web pages using jquery, Highcharts and Bootstrap to show graphical representations of resource usage by various processes running on systems deployed all over the world.
- Designed schemas and developed models in Django. Migrated them to MongoDB used for storing data.
- Designed a scheduler as a Django module to run various performance tests on every day basis that involved computing multiple statistics for every service and resource pair in a given time range.

Software Development Intern, Claimfound, Gainesville, FL   Aug 2019 -
- Improved the user matching algorithm to show more accurate matching claims from white pages.
- Developed new REST apis in flask to integrate new features to the app.
- Refactored existing flask code to decrease the time required for generating user forms.

PROJECTS

Intranet web forum at ISRO Satellite Center
- Developed an Intranet web forum application at ISAC (ISRO Satellite Centre) exclusively for their employees. Struts2 framework was used to develop the application. Programming language used was Java

Gossip and push-sum protocols simulator
- Determined convergence of Gossip and push sum protocols based on actors written in elixir.
- Implemented on Full network, 2D Grid, Imperfect 2D and Line network

Bitcoin Simulator
- Built a Bitcoin simulator on Phoenix framework.
- Users can create, delete, modify the accounts. Users can also deposit and withdraw money.

Hadoop Mapreduce on AWS
- Created a word count application in java. Extracted the JAR files. Stored JAR and input files on AWS S3.
- Ran the application on AWS EMR. Used one master node and three core nodes.

Image recognition as a Service
- Trained a model on imagenet dataset and deployed it on AWS.
- Developed a load balancer to automatically create and destroy EC2 instances as required.

AWARDS

- Spot Award by Akamai technologies for developing tools which were useful for various teams.
- Achievement Award by University of Florida - Partial Fee Waiver.