PRITHVIRAJ CHAUDHURI

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OBJECTIVE

Application for the position of a Software Developer.

TECHNICAL SKILLS

Programming Languages	- HTML5, CSS3, R, MATLAB, Python, Java, JavaScript, jQuery, Angular, PHP, C#, ASP.NET, OpenMP, MPI, CUDA, Makefiles, Git, MySQL, MongoDB, PostgreSQL, Standard Linux Operations
Platforms & Frameworks	- ServiceNow, OpenEdx, Java Spring Boot, OpenShift and Docker
Certifications	- Oracle Certified Java SE 7 Programmer, ServiceNow Certified System Administrator, EXIN Certified DevOps Master, ITIL Foundation Certified, TCS Internal E0 Angular JS Certified

EDUCATION

Master of Computer Science   August 2019 –Expected May 2021   GPA – 3.80

North Carolina State University (NCSU), Raleigh NC

Courses – Artificial Intelligence, Parallel Systems, Automated Learning and Data Analysis, Compiler Construction

Bachelor of Technology, Computer Science and Engineering   August 2012 – June 2016   GPA – 8.71/10

RCC Institute of Information Technology (Affiliated to Maulana Abul Kalam Azad University of Technology), Kolkata, India

WORK EXPERIENCE

Full Stack Web Developer Intern, Red Hat   May 2020 – Present

- Used Java Spring Boot and Pug/Jade to implement bulk upload of data to resource management application
- Enhanced search application to enable smart searching of employee records in the organization
- Containerized applications to establish automated deployment using OpenShift and Jenkins
- Designed and developed automated deployment driven by Jenkins and Git for faster delivery times and easy maintenance.

Graduate Research Assistant, North Carolina State University   January 2020 – May 2020

- Implemented custom learning components on OpenEdx for better course construction and easy migration of courses
- Integrated research projects to enable more intelligent and dynamic course generation in OpenEdx

Systems Engineer, TATA Consultancy Service Ltd, Kolkata India.   July 2016 – August 2019

- Implemented Service Catalog on ServiceNow for end users to utilize ServiceNow ITSM modules using CMS
- Integrated ServiceNow with external systems to streamline information flow
- Automated tasks by translating manual processes to system and leveraging ServiceNow orchestration platform
- Designed and developed a unified REST API integration application on ServiceNow to enable faster integration
- Migrated Service Catalog hosted in CMS to Service Portal using Angular JS

PROJECTS

In Class Projects

- Performed a study on Multimodal Classification performance (using Python TensorFlow) vs Single mode classification on Yelp dataset to prove whether multimodal performance is better than standard classification
- Improved performance of simulation algorithm by leveraging parallel device and multithreaded capabilities of CUDA, OpenACC, OpenMP and MPI. Optimized algorithm my carefully managing memory operations.
- Studied performance benefits of the same algorithm by leveraging parallel processing using CUDA, OpenACC, OpenMP and MPI
- Used OpenMP to implement parallel sorting algorithms for evaluating performance benefits vs overheads

Data Mining

Community Detection and Feature Selection algorithm development (R, MATLAB) –

- Accomplished a Feature Selection algorithm leveraging mutual information and Laplacian scores to select relevant features

Sentiment Analysis of Tweets (Java, Cassandra, Natural Language Processing) –

- Retrieved large counts of tweets from Twitter and stored in a single node Cassandra database
- Classified Tweets in positive or negative sentiments with OpenNLP Java APIs
- Leveraged StanfordNLP to find keywords in tweets to improve insights