

# PRITHVIRAJ CHAUDHURI

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## 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 EO AngularJS Certified

## EDUCATION

**Master of Computer Science** August 2019 – May 2021 GPA – 3.92  
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

**Senior Software Applications Engineer**, Red Hat, Inc. Oct 2022 – Present

- Continued work on all responsibilities as a Software Applications Engineer
- Took over and implemented customizations on custom marketing and sales platform in Adobe Experience Manager
- Worked on the migration of applications and hosts from legacy data centers to OpenStack virtual machines and implemented load balancers and host groups using OpenStack CLI
- Implemented infrastructure on AWS EKS for lucidworks fusion as part of the migration process from on prem to cloud native installations

**Software Applications Engineer**, Red Hat, Inc. June 2021 – Sept 2022

- Enhance and maintain Java spring boot applications with optimized solutions to requirements. Involves full stack development.
- Build and design automated deployment pipelines using OpenShift and Jenkins
- Implement ad hoc scripts using Python, bash etc. as and when required for various stories
- Identified issues and developed issues with multithreaded applications and distributed transactions.

**Graduate Research Assistant**, North Carolina State University January 2020 – Present

- 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

**Full Stack Web Developer Intern**, Red Hat May 2020 – August 2020

- 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.

**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

- Improved performance of simulation algorithms by leveraging parallel device and multithreaded capabilities of CUDA, OpenACC, OpenMP and MPI. Optimized algorithm by carefully managing memory operations.
- Studied performance benefits of the same algorithm by leveraging parallel processing using CUDA, OpenACC, OpenMP and MPI
- Studied performance of various transformer networks, CNNs and word embeddings in terms of Bleu Score and Cosine similarity on flickr9k dataset
- 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