

SANDEEP D HEGDE

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Computer Science graduate student seeking full-time opportunity from Dec'18.

Education

- **NORTH CAROLINA STATE UNIVERSITY** **Raleigh, North Carolina**
Master of Computer Science, 3.83/4 *Aug '17 – Dec '18*
Relevant Courses: Algorithms, Foundations of Data Science, Artificial Intelligence, Object Oriented Design and Development, DBMS, Advanced Data Structures
- **VISVESVARAYA TECHNOLOGICAL UNIVERSITY** **Bangalore, Karnataka**
Bachelor of Engineering in Computer Science, 3.87/4 *Sept '11 – June '15*
 - Won the 2nd prize in Android Mobile Application contest conducted by Computer Society of India.
 - Honored as Student of the batch in computer science department for contribution to projects.

Technical skills

- **Programming Languages:** Java, JavaScript, Ruby, C#, C++, PL/SQL, Python, R
- **Frameworks:** Angular, Ruby on Rails, ASP.NET
- **Databases:** SQL Server, PostgreSQL, MySQL, Oracle
- **DevOps:** CI/CD, Ansible, Docker

Work Experience

- **Saama Technologies** **Bridgewater, New Jersey**
Software Developer – Intern *May '18 - Aug '18*
 - Developed an application using Machine Learning to detect anomalies in clinical trial data using Python.
 - Engineered the application for outlier detection with data visualization to monitor participants of a clinical trial.
- **ThoughtWorks** **Bangalore, Karnataka**
Application Developer *Aug '15 - July '17*
 - Developed software applications using Agile software development practices such as Test-Driven Development, Pair Programming, Continuous Integration and Continuous Delivery.
 - Portfolio Management Application
 - Developed responsive web and mobile applications (iOS and Android) along with backend REST services.
 - Automated the deployment process using Ansible and optimized the time to deploy ensuring reliable deployment.
 - Asset Management Platform
 - Designed and developed the asset management platform using Node.js for the Kroger web applications.
 - Used Git to store and version the assets, and deployed the asset repository using Docker.
 - Car-Pooling Application
 - Developed application using Ruby on Rails to match cab mates and to provide the best route to travel.
 - Used Okta for authentication and Go-CD for Continuous Delivery of the project.
- **IBM ISL (India Software Labs)** **Bangalore, Karnataka**
Software Developer – Intern *Jan '15 - July '15*
 - Developed Difference Editor to visualize versions of source code for Rational Team Concert (RTC) Visual Studio client.
 - Designed and implemented theme adaptable widgets for RTC Visual Studio client using WPF and C#

Academic Projects

- **Open Source Software: Mozilla Servo**
 - Implemented mutation testing framework to evaluate quality of web platform tests using Python.
 - Automated various mutation strategies to produce bugs in source code.
 - Introduced test mapping framework to efficiently run tests against the mutants.
- **Detecting Plagiarism in Online Exams**
 - Developed a system which measures the similarity of the answers using Levenshtein distance.
 - Identified most suitable algorithms for different type of questions ranging from objective to subjective type.
- **Application for Karnataka State Fire and Emergency Services**
 - Remodeled the unstructured and real-time data from fire department for facilitating data analysis and data visualization.
 - Devised a web application to visualize fire hazard pattern for aiding the personnel in effective deployment of services.
- **Online Teacher's Appraisal System**
 - Developed ASP.NET web application for conducting and compiling the appraisals along with generating rating-report for the faculty of the college.