Swastik Roy

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CONTACT INFORMATION
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SUMMARY

Full Stack Software Engineer with **+2 Years** of Experience. Hands-on experience on various End-to-End Development technologies, caching techniques, latency, throughput management and code refactoring.

EDUCATION

MASTERS IN COMPUTER ENGINEERING   Cum. GPA: N/A
ARIZONA STATE UNIVERSITY, Tempe, AZ   Expected May 2019

BACHELOR OF TECHNOLOGY   GPA: 7.56/10
INDIAN INSTITUTE OF TECHNOLOGY, DHANBAD, INDIA   Graduated May 2015

WORK EXPERIENCE (+2 Years)

ARIZONA STATE UNIVERSITY | GRADUATE TEACHING ASSISTANT
August 2017 – December 2017 | Tempe, AZ
- Teaching Assistant for course CSE340 "Principles of Programming Languages".

SCORENEXUS | WEB DEVELOPER & INDEPENDENT CONTRACTOR
June 2017 – August 2017 | Online
- Extended Scorenexus website, an online test taking platform used by TOEFL test takers, using PHP Codigniter framework.
- Implemented in-browser audio encoding, and integrate payment gateway using Foxycart framework.

BEEHYV SOFTWARE SOLUTIONS | SOFTWARE ENGINEER
June 2015 – June 2017 | Hyderabad, India
- Engineered end to end modules for a Question-Answering Platform used to answer user queries on ecommerce websites..
- Increased accuracy of the software to interpret questions by 18% using **Natural Language Processing** techniques such as dependency parsing, named entity recognition, relationship extraction and **Machine Learning** to classify questions.
- Developed **crawlers** and **parsers** to extract text from documents(DOC, PDF) & Web using Apache Nutch, JSoup, HTMLUnit.
- Improved accuracy of HTML DOM based approach to **extract semi-structured data** from web by extending with visual approach using CSSBox library, from 51% to 65%.
- Programmed REST services using **Java Spring** Backend and **Hibernate**.
- Implemented ranking algorithm to rank answer responses based on the cosine similarity of their word vectors.
- Built plugins(**Magento, Jira & Standalone Javascript SDK**) to integrate the platform into third party websites.
- Redesigned and optimized official website of Beehyv for search engines.
- Created kiosk app to control salad making robot Sally(Chowbotics Inc.) using Android and GCode to operate CNC machine.
- Managed a team of developers, built android application and map visualization to monitor survival of low birth weight babies using **Highcharts charting library** and **TurfJS**.

INTERNSHIP

SOCIALHOOP | SOFTWARE ENGINEERING INTERN
May 2014 – July 2014 | Mumbai, India
- Implemented real-time messaging for the company website using MongoDB and Socket.io.

SKILLS

Programming Languages: Java • JavaScript • C/C++ • Python • C#

Databases: MySQL • MongoDB • Elasticsearch • SQLite

Web: HTML5 • CSS/SCSS/LESS • Grunt/Gulp • Bower • JQuery, Angular, React • Bootstrap, SemanticUI • SEO

Mobile: Native Android • Ionic(Hybrid) • Windows Phone • Desktop

Frameworks: Java Spring • Python Django • PHP Codigniter • NodeJS • Apache Spark • Turf • Twig • SockJS • Highcharts

Natural Language Processing Tools: OpenNLP • WordNet • Word2Vec IBM Watson • Stanford CoreNLP

Information Extraction Tools:HTMLUnit • JSoup • Apache Nutch • Boilerpipe • CSSBox

Familiar Machine Learning Tools: Scikit Learn • Deeplearning4j • BigML • Weka

AWARDS

2013   Nationals   Microsoft Imagine Cup, India
2013   Top 30 teams   Semi-Finalist at Dell Social Innovation Challenge