Abhishek Hemant Naik

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EDUCATION

Indiana University, Bloomington, IN, United States — August 2016 - May 2018
Master of Science in Computer Science — GPA: 3.63/4.0
Coursework: Designing of algorithms, Software Engineering, Cloud Computing, Artificial Intelligence, Big Data, Data Mining

University of Mumbai, Mumbai, MH, India — August 2009 - May 2013
Bachelor of Engineering in Computer Engineering — (Distinction)

SKILLS

Languages: Java, C++, C, Python, SQL, R
Web Technologies: RESTful APIs, PHP, HTML5, JavaScript, CSS3, Cold Fusion, Google Analytics
Frameworks & libraries: Spring Boot, Hadoop MapReduce, Wordpress, Bootstrap, AngularJS, jQuery
Databases and Servers: Oracle, MySQL, MS SQL Server, H2, Apache Tomcat
Tools: G++, VIM, GDB, Valgrind, GIT, GCC, Linux, Eclipse, Ansible, Docker, Postman, OpenCV, ServiceNow

WORK EXPERIENCE

IT Programmer and Web Developer, Indiana University, Bloomington, IN, US — January 2018 – May 2018

- Worked with IU affiliates in a group of 3 to help them design, create and extend their frontend and backend.
- Used RESTful APIs, Bootstrap, PHP, JavaScript, HTML5, CSS3, jQuery & Wordpress to generate web pages.

Systems Engineer, Tata Consultancy Services Limited, Mumbai, MH, India — January 2014 – July 2016

- Elicited the requirements & developed packages & procedures in Oracle & PL/SQL to migrate the accounting data of General Electric businesses to a new accounting system. Used C++ & Java for handling backend business logic.
- Conducted knowledge sharing sessions for rapid prototyping & better productivity in time-critical scenarios.
- Saved around $100,000 in revenue by process improvement & secured Six Sigma Green Belt certification.

PROJECTS

- Java Spring Boot Blogging application using RESTful APIs containerized in Docker on AWS [Link]: — Fall 2017
  - Used Spring Boot and RESTful APIs for creating, deleting & updating blogs as part of the backend.
  - Used Travis CI to ensure passing of builds, containerized the app in Docker and deployed it on Amazon AWS.
- ToDo list using horizontally scalable Microservices architecture and Java Spring Boot [Link]: — Spring 2018
  - Used microservices architecture to create multiple instances of User services and the ToDo application services.
  - Used Spring Boot, Spring Cloud, RESTful APIs, Eureka for service discovery, Ribbon for client-side load balancing/distribution, Feign for invoking the RESTful APIs and Postman for testing them.
- Mini Search engine [Link]: — Spring 2017
  - Implemented a mini search engine in Java to retrieve the top 20 documents for the entered search keyword using Hadoop MapReduce framework & PageRank.
  - Data was loaded using HBase table that was built on top of HDFS for faster retrieval.
- Application of Searching and Machine Learning algorithms [Link]: — Fall 2017
  - Developed an artificially intelligent program in Python to suggest the next best move to the 'Pichu' player.
  - Applied kNN and AdaBoost algorithms on Flickr images to determine their orientation.
  - Created applications carrying out natural language processing using Hidden Markov Models to determine the parts of speech.
- Happening E-Market [Link]: — Fall 2016
  - Implemented a full stack Ecommerce website using Java (J2EE) working in a team of eight to provide a platform for startups to showcase their products.
  - Used UML diagrams, JSP, Servlets, Java Beans, JavaScript, Bootstrap, JIRA and MVC architecture along with an Object-oriented design and Agile approach.
  - Supported features like inventory management, captcha, buying recommendations and reporting.
- Vehicle Detection Application (VDA) on OpenStack clouds [Link]: — Spring 2017
  - Used Ansible to deploy an enhanced & adapted VDA built in C++ on OpenStack clouds for remote processing.
- Prediction of Acceptability Factor (AF) [Link 1] [Link 2]: — Fall 2017
  - Predicted the AF of the UCI car evaluation dataset in R with 98% accuracy using Random Forest and Decision Trees. Plotted Mosaic and Box plots for data visualization. Also did sentiment analysis of Tweets in Python in another project.