Sanveg Rane

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EDUCATION

North Carolina State University, Raleigh, NC **GPA: 4.00/4.00**
Master's in Computer Science August 2019- May 2021
Design and Analysis of Algorithms, Object Oriented Design and Development, HCI, Database Management Systems, Artificial Intelligence, Automated Learning and Data Analysis

K.J. Somaiya College of Engineering, University of Mumbai **GPA: 8.41/10.0**
Bachelor of Engineering, Computer Engineering August 2013- May 2017
Algorithms and Data Structures, Operating Systems, Databases, Compiler Construction, Data Analysis, Machine Learning

SKILLS

Languages:	Java (proficient), Python, JavaScript, C++ (beginner), Ruby, Bash, Typescript, HTML / CSS, PHP, SQL
FRAMEWORKS:	Spring MVC, Spring Boot, Spring JPA, Hibernate, TensorFlow, Node.js, Angular, React, Android, Ruby on Rails
CONCEPTS:	OO Principles, Web services, Multi-threading, Problem solving, Design Patterns, Micro-services, REST
TOOLS:	Git, Heroku, AWS, Docker, Jira, NoSQL, MongoDB, Oracle, JUnit, PL/SQL, Linux OS

EXPERIENCE

Engineering Development Intern **The MathWorks** (Boston, MA) May 2020 – Current
- Bug Tracking tool - Developing a React based application to record and track application wide issues in MATLAB product
- Gathered requirements, proposed optimized solution to problem and coding software to meet expectations

Software Engineer Consultant **Morgan Stanley** (Mumbai, India) June 2017 – July 2019
- Analyzed, structured and delivered reliable software by collaborating with cross-functional teams in multiple domains
- Developed a **scalable and configurable Web framework** with Spring MVC, Angular and SQL; used by development teams to create customizable web applications to deliver large scale accounting information seamlessly
- Designed and deployed an application with Java, Python, MongoDB to generate daily reports on Client Transactions
- Facilitated faster response times of data-intensive APIs by **optimizing fragments of code** and leveraging concurrency
- Key player in all aspects of the software development lifecycle, from requirement gathering to production deployment

Application Developer Intern **ForBinary Technologies** (Mumbai, India) May 2016 – July 2016
- Application Development - Devised an Android application, to **help corporates and businesses** improve customer relations
- Designed and coded an innovative framework using Java to create customized applications as per client requirements

PROJECTS

Notify-Me Website *(Spring MVC, Angular, MySQL, JSoup, Docker, Scheduler, Backend)*
- Web Application to monitor product price on ecommerce website to deliver best prices for users
- Developed functionalities to read a webpage mark up, track prices and notify users

Detecting Spoilers in Movie Reviews (*Deep learning, RNNs, LSTM, NLP, Keras, TensorFlow*)
- A Bi-Direction LSTM RNN model to detect presence of any spoiler content in the movie reviews
- Utilized NLP to preprocess training data to analyze similarities of reviews with actual spoilers to determine similarities
- Developed a model with 77% accuracy and 80% recall rate in detecting a review with actual spoilers

Expertiza - Open Source Contribution *(Ruby on Rails, SQL, Web Technologies)*
- Rails based open source project to create reusable learning objects and facilitate peer reviews
- Integrated a module to assign weights on questions in an assignment and score computation considering the weights

Smart Stick for Visually Challenged *(Android, Java, C++, SDLC, Performance Tuning)*
- A walking stick connected to an Android application which detects potholes and obstacles, provides voice-based navigation and gesture detection; to **assist visually impaired people in commuting**
- Devised algorithms to detect potholes and obstacles using ultrasonic sensors and Arduino

Lexi Vote – LexisNexis Hackathon 2019 *(Ionic, Typescript, Dialogflow, Chatbot, Mobile application)*
- Android application to **encourage and assist young voters** of US in election process
- Developed a Dialogflow based chatbot with sentiment analysis to respond to user queries

Neural Network Implementation (*Deep learning, Neural Networks, R, Data Analysis*)
- Implemented a neural network to detect diabetes using the Pima Indian data set
- Coded the network from scratch in R, with sigmoid calculations and optimizer to train the network

Course Tracker *(Python, Web Scraping, MongoDB, Heroku)*
- Python script to **track enrollment status of courses** on college website and notify interested students
- Coded a python script to automate checking availability status of various courses on NCSU website using Python