RASHMI OJHA

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EDUCATION

Texas A&M University, College Station, Texas   08/2017 – 05/2019
Master of Science in Computer Science   GPA-3.9/4

C.T.A.E., Maharana Pratap University of Agriculture and Technology, India   08/2011 – 06/2015
Bachelor of Technology in Computer Science and Engineering   GPA-8.37/10, Gold Medal

Coursework: Neural Networks, Machine Learning, Natural Language Processing, Information Storage and Retrieval, Artificial Intelligence, Modern Cryptography, Distributed Systems and Cloud Computing, Analysis of Algorithms, Software Engineering, Data Structures, Operating Systems, Database Systems, Network Security and Cryptography, Computer Networks, Object Oriented Programming, Theory of Computer Science, Computer Architecture

TECHNICAL SKILLS

Languages: Java, Python, C, C++, HTML5, CSS3, JavaScript, PHP, Unix Shell Scripting
Frameworks: Spring, SpringBoot, Hibernate, SOAP, REST, Junit, Mockito, node.js, express.js, Django, Microservices
Database: MySQL, SQLServer, Oracle, MongoDB
Platforms: Maven, Jenkins, TeamCity, Jira, Confluence, GIT, SonarQube, Docker, Tomcat, Eclipse, IntelliJ

WORK EXPERIENCE

Software Engineer Intern – Information Security, PayPal, San Jose, CA *[Back-End]*   05/2018 – 08/2018
- Improved the security of PayPal's key management tool's bootstrapper by making it independent from legacy services
- Implemented multiple encryption techniques to secure sensitive data using Hardware Security Module (HSM)
- Dockerized the bootstrapper to make it more secure, portable, cloud based and optimized

Assistant Software Engineer, Tata Consultancy Services Ltd. (TCSL), India *[Full Stack]*   08/2015 – 06/2017
- Served as a **Full Stack Developer** for a multinational Investment Bank to develop a Compliance Monitoring System
- Mentored trainee associates in *"Java Programming"* and *"Data Structures"*
- Conducted brain storming sessions with clients for requirement elicitation and architecture design

ACADEMIC PROJECTS

AutoML Video Classification *[Neural Networks, Python]*   02/2018 – 05/2018
- Developed a video classification module to expand the functionality of Auto-Keras (an open source AutoML framework)
- Trained a 3D convolutional neural network to capture spatiotemporal features of video on UCF-101 dataset
- Hill-Climbing based Neural Architecture Search (NAS) to automatically search for architectures and hyper-parameters

Toxic Comment Classification *[Machine Learning, Natural Language Processing, Python]*   02/2018 – 05/2018
- Developed an intelligent system to measure the probability of a comment being derogatory
- Built a web application to check toxicity and classify a comment as obscene, threat, insult or identity hate
- Combined natural language processing and machine learning methods to generate a 98% accurate classification model

Bot Detection in Bidding Systems *[Machine Learning (Ensemble), Python]*   02/2018 – 05/2018
- Identification of bots from the bidders participating in multiple auctions
- Based on several features extracted from diverse heterogenous data like bid time, device used, IP address, etc.
- Model is a combination of the three best performing ensemble methods achieving a final accuracy of 94%

Food Recommendation Engine *[Recommendation techniques, Python, HTML, CSS]*   03/2018 – 05/2018
- Incorporated collaborative filtering and matrix factorization techniques on Amazon Fine Foods dataset
- Trending and Personalized recommendations for users based on their history and similarity with other items and users

Web-Based Password Manager *[HTML, CSS, JavaScript, jQuery, PHP]*   08/2014 – 05/2015
- Web application to securely store large collections of passwords with additional feature of password generation
- Highly secured application with CAPTCHA based authentication and information storage using cryptographic algorithms

Image Steganography Tool *[Java, Swing]*   05/2013 – 06/2013
- Desktop application to perform image steganography using core java and swing
- The utility allows encryption/decryption of text and then embedding/retrieving it from PNG images

AWARDS AND ACHIEVEMENTS

- University Gold Medal and University Merit Scholarships for achieving institute rank 1
- TCS On the Spot Award and client appreciation for process improvement, value addition and HR enablement