DEEPIT RAJ SAPRU

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EDUCATION:

Master of Science (MS) in Computer Science (Software Engineering & Databases)   **May 2019**
University of Texas at Arlington, TX   GPA: 3.6/4.0
Bachelor of Engineering (BE) in Computer Science   **May 2017**
Visvesvaraya Technological University, India   GPA: 3.8/4.0

SKILLS:

Programming: C++, Java, Python, JavaScript, SQL/PLSQL, Perl, Unix shell scripting
Cloud Technology: Amazon Web Services, Microsoft Azure, IBM Cloud, Docker, Kubernetes
Databases/Big Data: MySQL, Oracle, MongoDB, SQLite3, Hadoop, RDBMS
Web Technologies: HTML & CSS, JSON, Ajax, J2EE, PHP, AngularJS, NodeJS, D3.js
Other: IntelliJ, GIT, SVN, Agile, RESTful API, UML, Design Patterns

PROESSIONAL EXPERIENCE:

Software Engineering Intern   **Oil & Natural Gas Corporation**, Navi Mumbai, India   **Jun 2016 – Aug 2016**
- Created OpenGL ES application, capturing shallow subsoil structure. Suggested effective processes for improving existing functionality. Participated in problem resolution and debugging activities in C++ applications.
- Designed and installed system modeling utilizing OpenGL. Created clean APIs for internal graphics tools and editors that support developing in lighting, shadows, and post effects.

Product Engineer   **USHVA**, Mumbai, India   **Dec 2015 – Jun 2016**
- Ensure mobile applications are properly integrated with Android APIs. Create SQL database structures that integrate with Android applications and MVC design web interfaces.
- Integrated client-side application with server API via asynchronous tasks. Redesigned mobile UI and implemented dynamic image sizing and support for multiple devices.
- Participated in fast-paced development cycles, i.e. complete Software Development Life Cycle (SDLC) for proper analysis, development, testing, deployment and enhancement of the code.

ACADEMIC PROJECTS:

Software Engineering- Car Rental System (Android, Firebase, SQLite)   **Aug 2018 – Present**
- Designing and developing a car rental system application with a team of 5 members, implementing Agile methodology.
- Process involves requirement gathering, design, code, unit testing, system testing, deployment and monitoring.

Software Engineering/Wireless P2P File Sharing (Android, Wi-Fi Direct, Nearby API)   **Jun 2018 – Aug 2018**
- Developed a Wi-Fi Direct application with a team of 2 members, implementing Agile methodology.
- Performs the task of listing nearby devices, manage connections, sending multiple files and checking for peers.

File Storage System on Cloud (Azure, AWS, Bluemix, Java, Python)   **Jan 2018 – May 2018**
- Implemented web application for storage and retrieval of data using EC2 and containers like S3 on cloud service provider
- Effective data analysis with faster response rate achieved using in-memory cache systems like Memcached and ensured availability on demand with Autoscaling & load balancing policies.

Analysis of large dataset using MapReduce (Hadoop, Java, Python)   **Mar 2018 –May 2018**
- Implemented Hadoop MapReduce to distribute large datasets of earthquakes into multiple clusters to perform statistical analysis of real time data. Data visualization performed using D3.js

Text Mining, Classification, Clustering, Normalization of large dataset (Python, Sklearn, TensorFlow)   **Aug 2017 – Dec 2017**
- Implemented Data Mining algorithms for classification and accurately predict the target class for each of the data files.
- Improving accuracy by performing 10-fold stratified cross validation, using neural networks in the process.

Weather Client Application (XML, WSDL, Java, REST)   **Oct 2017 – Dec 2017**
- Designed a web application that connects to the National Weather Service using REST and display current weather conditions with location detection using latitude and longitude coordinates.

ACHIEVEMENTS:

- Earned early promotion to Product Engineer for efforts on optimization and enhancement of the overall task assigned.
- Finished at the top in several quiz trivia competitions. Represented the university at state and regional level.

GRADUATE COURSEWORK:

Distributed Systems, Design & Analysis of Algorithms, Web Data Management, Data Mining, Cloud Computing, Software Engineering, Software Testing, Software Metrics & Quality Engineering, Wireless Networks, Secure Programming.