PRERANA SINGH

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EDUCATION

University of North Carolina at Charlotte   **December 2018**
Master of Sciences, Major: Computer Science   Current GPA: 3.77
Guru Gobind Singh Indraprastha University, Delhi, India   **May 2013**
Bachelor of Technology, Major: Information Technology   Aggregate: 72.61 | CPI: 68.29

TECHNICAL SKILLS

Programming languages: Java, Android, Python, MATLAB, JavaScript, JSP, HTML5, CSS3
Database Systems: MySQL, SQLite, Realm for Android, Firebase, MongoDB
Tools & IDE: Eclipse, Android Studio, NetBeans, Anaconda, Jupyter Notebook, Postman, Git, Github, NetWeaver Development Studio, JUnit
Frameworks: NodeJS, ExpressJS, Bootstrap 4, MaterializeCSS, Mocha and Chai
Operating Systems: Windows, Mac, Android, Linux
Other Skills: SDLC, Agile Methodology, Algorithms and Data Structures, Machine Learning, HTTP, SAP Process Integration, SAP NetWeaver Process Integration 7.0, SAP NetWeaver Process Integration 7.4, SAP Solution Manager

PROFESSIONAL EXPERIENCE

Accenture Solutions Pvt. Ltd., Hyderabad, India
Application Development Analyst   **November 2015-December 2016**
- Designed over 70% of SAP Process Integration interfaces for a leading client in Steel industry so as enable communication between SAP and non-SAP systems throughout the project.
- Awarded as Best Performer for giving optimal solutions within the tenure and appreciation from the client and Accenture Leadership for excellent delivery and client satisfaction.
- Delivered critical developments in SAP PO by reducing the complexity of IDOC communication using multi-mappings and Adapter Specific Message Attribute resulting in increased efficiency of communication to 54milliseconds.
- Proposed and implemented user defined functions in java for complex mappings resulting in reduced data turnaround time in procure-to-pay process from 1 day to 4 hours enabling clients to have faster response time to purchase requests.

Associate Software Engineer   **December 2013-October 2015**
- Adapted agile methodology for software development to convert business requirements into quality products for a leading client in automotive industry.
- Trained 10 members of the team on the upcoming new technologies related to SAP PI/PO and technical challenges faced by the team.

Innodata Isogen Pvt. Ltd., Noida, India
Java Intern   **June 2012-July 2012**
- Developed web-based ATM Banking System in Java using JSP and Servlets with JDBC connectivity and MySQL Database.
- Gathered the user requirements, designed and documented Software Requirement Specification single handedly.

ACADEMIC PROJECTS

- **Emotion Detection in Speech:** Implemented predictive models to classify the emotions in human speech and comparing the accuracies of various models. Used speech feature extraction package known as PyAudioAnalysis on American English and German Database (RAVDESS and Berlin dataset).

- **Book Review System:** Web Application that helps bibliophiles to discover books based on their interests and reviews. Users can maintain their profile, add reviews, upvote and downvote other reviews and maintain wish list of their favorite books. Application was developed in Java using Jersey for RESTful web services with database in MySQL and used vanilla JavaScript, HTML and CSS with MaterializeCSS for front end.

- **MakerNet**: Social Web Application developed to connect makers of Makerspace to the audience, view their work and let other utilize the waste material which came as byproduct of the projects. Developed the application using NodeJS, ExpressJS, and MongoDB with JS libraries like Passport.js, Moments.js and Multer. Unit Testing completed through Mocha and Chai framework.

- **Trip Planner**: Developed an android application where the users can plan trips. Features included adding new trips, adding places to new trips, delete the places and display maps of the trips. Used Firebase for data storage and Google Places API to retrieve geo coordinates of the city and nearest places. Also, implemented Recycler Views and Google Maps in the application.