

# PRERANA SINGH

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Portfolio: <https://preranas20.github.io/>

LinkedIn: <https://www.linkedin.com/in/prerana-singh/>

GitHub: <https://github.com/preranas20>

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## EDUCATION

**University of North Carolina at Charlotte**

Master of Sciences, Major: Computer Science

**December 2018**

Current GPA: 3.80

**Guru Gobind Singh Indraprastha University, Delhi, India**

Bachelor of Technology, Major: Information Technology

**May 2013**

Aggregate: 72.61

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## TECHNICAL SKILLS

**Programming languages:** Java EE, Android, Python, MATLAB, JavaScript, JSP, Swift, HTML5, CSS3

**Database Systems:** MySQL, SQLite, Realm for Android, Firebase, MongoDB

**Tools & IDE:** Eclipse, Tomcat, Maven, STS, NetBeans, Anaconda, Jupyter Notebook, Postman, GIT, GitHub, XCode, JUnit

**Frameworks:** Java EE, Spring Framework, MVC, NodeJS, ExpressJS, AngularJS, Bootstrap 4, MaterializeCSS, Mocha and Chai

**Operating Systems:** Windows, Mac, Android

**Other Skills:** SDLC, Agile Methodology, Algorithms and Data Structures, Software Design Patterns, Machine Learning, HTTP

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## PROFESSIONAL EXPERIENCE

**Ramana Coaching Center, Charlotte, NC**

*Fall Intern*

**September 2018-December 2018**

- Developing website for the organization that help students and staff to manage their classes, enrollment, registration and practice tests for SAT Preparation.
- REST APIs developed in Spring Framework with MySQL database using jdbcTemplate and deployed on application servers using Maven. Developing functionalities in the portal using Java(J2EE), AngularJS, Bootstrap, HTML5 and CSS3.

**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.
- 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.
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## 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).
- **SMS Gateway:** Developed a mobile SMS gateway using an android app which is deployed to enable sending and receiving of SMS. The mobile app notifies a server when SMS is received or sent and indicate the sender, receiver and message. The application is built in NodeJS, ExpressJS, MongoDB and Android.
- **Innovative Computing Projects App:** Developed an app for College of Computing and Informatics' poster competition event. It automates the evaluation process, making it easier to evaluate the teams and maintain the users and team score through easy login and team detection using QR Code, saving survey answers through mobile app and live view of results to administrator through Web App.
- **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. Implemented Recycler Views and Google Maps in the app.