

# Prasandeeep Singh

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## EDUCATION:

**Indiana University**, Bloomington (USA)

*Master of Science, Computer Science*

**August 2016 - May 2018**

**GPA 3.85/4.0**

*Relevant Courses – Algorithms Design and Analysis, Software Engineering, Cloud Computing, Object Oriented Software Management, Artificial Intelligence*

**Punjabi University**, Patiala (India)

**August 2008 – May 2012**

*Bachelor of Technology, Electronics and Communication Engineering*

## TECHNICAL SKILLS

- Programming languages: Java, C++, JavaScript, HTML, CSS, jQuery, SharePoint 2010/2013
- Frameworks/Tools: SharePoint 2010/2013, Heroku, Ella, [GraspableMath](#), Phaser.io, Github, Node.JS (with Sequelize ORM), ExpressJS, Eclipse, Hadoop, Map-Reduce, YARN, WCMS(Indiana University's web framework), Rhythmyx
- Project Management: JIRA, Confluence, Agile methodologies- Scrum/Kanban, HPSM, Slack, Asana

## WORK EXPERIENCE

**Web Developer** | *Kelley School of Business, Indiana University*

June 2017 to Present

- Responsible for development and coding of new websites and maintaining existing websites within the Kelley website environment
- Perform technical analysis of external sites for general maintenance of outdated content, styles, and web standards compliance.
- Conduct related planning, design, programming, testing, implementation and support of products.

**Associate Instructor** | *Software Engineering Graduate Course, Indiana University*

January 2017 to Present

- Grade Assignments, Projects, Quizzes and Exams, Provide Insight and clarify theoretical/application doubts and conduct office hours to help students with their queries

**Application Developer** | *Office of the Vice Provost for Undergraduate Education (OVPUE)*

May 2017 to June 2017

- Developed front-end prototype for OVPUE's Student Engagement Roster(SER) application
- Edited and Improved UX-designs for SER and other applications
- Contributed to conceptual and architectural design of system for the presentation of data on student performance.

**Senior Systems Engineer, Infosys Limited, Pune**

March 2013 - July 2016

*Customer Management Services - Client METRO*

- Developed site collections for Metro Employee base
- Managed 10000 site collections, user access and portfolio services
- Developed automated scripts for dynamic site storage allocation reducing SLA by 40%

## ACADEMIC/SIDE PROJECTS

**Netflix/Amazon Recommendation System** | Java

May 2017 – July 2017

- Worked with data for movies, including ratings which items should be recommended to a user based on their ratings of several movies using Object Oriented Programming with Java language.
- Calculate average ratings, calculate how similar a given rater is to another user based on ratings, Recommend movies to a given user based on ratings and display recommended movies for a given user on a webpage.

**Predictive Text Generation** | Java

May 2017 – June 2017

- Generation of random text from a given training set using Markov Models (Order N)
- Incorporated class design features using UML diagrams and OOP concepts

**Search Engine** | Java, Hadoop- Map Reduce, HBase, Lucene

March 2017-May 2017

- Developed a test search engine using the clueweb09 dataset containing ~1billion pages.
- Implemented an algorithm that computes the inverted index and is capable of handling queries in the form of a single word

**Online Game Math-e-Saurs** – *Software/Web Developer* | JavaScript

January 2017 – May 2017

- Developed an interactive game to make learning mathematics easy and fun for children (3<sup>rd</sup> to 9<sup>th</sup> grade)
- Followed Agile Development methodologies with regular deliverables after each sprint

**E-commerce website** - [Foodforsoul.com](#) – *Software Developer and Project Manager*

August 2016 – December 2016

- Developed one-stop E-commerce marketplace for students to buy/sell class notes and books
- Applied novel project/resource management techniques such as Scrum/Kanban models increasing productivity and ensuring accurate deliverables
- Awarded Best Project award and accolade for leadership and application of novel management approaches for the course, Software Engineering