Samanjate Sood

samanjate.github.io/

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Boston, MA

EDUCATION

Northeastern University, Boston, MA
College of Computer and Information Science   *Sept 2016 – Aug 2018*
Candidate for a Master of Science in Computer Science; GPA: 3.71
Specializations: Artificial Intelligence, Database Management, and Software Engineering.

UIET, Panjab University, Chandigarh, India
Bachelor of Engineering in Computer Science & Engineering   *May 2010 – Jun 2014*

PROGRAMMING SKILLS

- **Languages**: Java, JavaScript, C, C#, Python, SQL, T-SQL, NoSQL, HTML, CSS
- **Frameworks**: Spring Boot, JPA, AngularJS, NodeJS, RESTful, MVC, MEAN, Guice
- **Tools**: Eclipse, Visual Studio, Git, Perforce, TFS, TeamCity, Jenkins, Maven, JIRA, Agile SCRUM, SharePoint

EXPERIENCE

Northeastern University, Boston, MA
Master's Assistant, College of Computer and Information Science   *Jan 2018 – Apr 2018*
- **Database Design**: Grading assignments/projects and holding office hours to clarify subject related doubts.
- **Auto Grader**: Developed a tool to automatically grade all of the students' assignments and tests.

Charles River Development, Burlington, MA
Software Engineer Co-op, Fixed Income Trading   *Jul 2017 – Dec 2017*
- **Evergreen Repos**: Enhanced the CRIMS application functionality by adding support for Evergreen Repos.
- **Re-factoring**: Re-factored the CRIMS application's Java code to split client, server, and utility code to improve the system's security, performance, and the overall design of the code.
- **Source Code Analyzer**: Designed and developed a Java tool to parse Java code in text format to find all method invocations of a Java class from other Java classes.
- **Scripts**: Wrote several Python scripts for analyzing the code dependencies to help estimate effort to re-factor it.
- **Automation**: Developed automation tests to test the hedging workflows of the IMS application using Silk4Net.

Infosys, Chandigarh, India
Systems Engineer   *Jun 2014 – May 2016*
- **Site Provisioning Tool**: Developed a tool to automatically create and provision SharePoint sites/sub-sites.
- **Access App**: Created a SharePoint app that updated the user access level on the given SharePoint site/sub-site
- **Text Replacement Tool**: Built an efficient tool to search and replace text for all the files in a directory.
- **Bug Estimation and Fixing**: Improved the overall application experience by fixing several bugs.
Systems Engineer Intern   *Feb 2014 – Jun 2014*
- **University Website**: Designed and implemented different modules of a university website including a result management system, admission application system, and class enrollment system.
- **Training**: Successfully completed training on Object Oriented Programming and SQL using .NET framework.

PROJECTS

- **HEFT**: Developed a task scheduler for bounded number of heterogeneous processors for task management focusing on minimizing task finish time.
- **Music Hub**: Designed and developed a music streaming website where artists can share, critics can review, and advertisers can promote.
- **2048 Solver**: Implemented Minimax and Expectimax and designed Heuristics to evaluate each game state and solve a game of 2048.
- **Plagiarism Detector**: Designed and developed an interactive tool that detects the degree of similarity between two pieces of C code and visualizes the result.
- **Movie Review Website**: Designed and developed a website where users can rate/review the latest movies and TV shows. Users can also browse to find movies, TV Shows, and celebrities as all data auto-updates.
- **IR Systems**: Implemented 3 information retrieval models and evaluated their performance using effectiveness metrics.