

# Samanjate Sood

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## EXPERIENCE

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- **Charles River Development**, Burlington, MA
  - *Senior Software Engineer I, Fixed Income Trading* *Mar 2021 – Present*
    - **iHub WebApp**: Redesigned architecture to stream and persist incoming inventories from different sources hosted as an external web application.
    - **Mentoring**: Mentored new hires and interns of the team to adopt to best practices and strategies for Developers.
  - *Software Engineer II* *Mar 2020 – Mar 2021*
    - **Market Data Alerts**: Developed a mechanism to alert users when new IOI data of interest to them is available.
    - **Market Data Summary**: Developed a Detail View to show a summary of IOIs present in the system.
    - **FIX Message Processor**: Built a FIX message processor to parse and persist incoming messages from a venue.
  - *Software Engineer I* *Nov 2018 – Mar 2020*
    - **Client Java Removal**: Redesigned a thick client architecture removing its dependency on local java process.
    - **Quote List**: Designed data model and server APIs to create and execute multiple fixed income orders.
    - **Market Capture**: Automatically capture and attach the market data snapshot upon a quote/order execution.
    - **Dark Theme**: Added Dark Theme support for several fixed income views in the CRIMS application.
  - *Software Engineer Co-op* *Jul 2017 – Dec 2017*
    - **Re-factoring**: Split client and server code to improve the system's security, performance, and design of the code.
- **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 for assisting students.
- **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.
  - *Systems Engineer Intern* *Feb 2014 – Jun 2014*
    - **University Website**: A website with result management, admission application, and class enrollment systems.

## PROGRAMMING SKILLS

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- **Languages**: *Primary* - Java, C#, SQL, T-SQL. *Secondary* - JavaScript, C, Python, NoSQL, HTML, CSS.
- **Technologies**: ORMs, MVC, RESTful, GRPC, Guice, Angular, NodeJS.
- **Tools**: Eclipse, IntelliJ, Visual Studio, Perforce, TeamCity, Gradle, Agile SCRUM, Maven, Git, JIRA, SharePoint.

## EDUCATION

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- **Northeastern University**, Boston, MA
  - *Master of Science in Computer Science; GPA: 3.71* *Sept 2016 – Aug 2018*  
Specializations: Database Management and Software Engineering.
- **UIET, Panjab University**, Chandigarh, India
  - *Bachelor of Engineering in Computer Science & Engineering* *May 2010 – Jun 2014*

## PROJECTS

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- **HEFT**: Task scheduler for bounded number of heterogeneous focusing on minimizing task finish time.
- **Music Hub**: Music streaming website where artists can share, critics can review, and advertisers can promote.
- **2048 Solver**: Minimax and Expectimax with custom Heuristics to evaluate game state and solve a game of 2048.
- **Plagiarism Detector**: Interactive tool that detects the degree of similarity between two pieces of C code.
- **Movie Review Website**: A website to browse, rate, and review movies and TV shows.
- **IR Systems**: Implemented 3 information retrieval models and evaluated their performance using effectiveness metrics.