

SAHIL JAIN

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EDUCATION

Stony Brook University • New York, U.S.A.

Fall 2015 – May 2017 (Expected)

Master of Science, Computer Science

Courses: Analysis of Algorithms, Operating Systems, Computing with Logic, Compiler Design

Indian Institute of Technology, Roorkee • Roorkee, India

Fall 2009 – May 2014

Integrated Master of Science, Applied Mathematics

Thesis: [Fama French Three Factor Model in Indian Stock Market](#)

Courses: Computer Systems and Programming, Database Management, Data Structures, Graph Theory, Number Theory, Discrete Mathematics.

SKILLS

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|-----------------------|------------------------------------------------------------------|
| Programming Languages | Java, C/C++, Python, Prolog |
| Databases | MySQL, Oracle |
| Tools | SVN, Git, Android Studio, Eclipse, Gradle, JDeveloper, Matlab, R |
| Technologies | JSP, Servlets, JDBC, Eclipse, ADF, WebLogic, Tomcat, JIRA. |

WORK EXPERIENCE

Oracle Financial Services Software

Sept. 2014 – June 2015

Applications Developer

Mumbai, India

- Designed and Developed a new Account opening feature for Oracle Banking Platform – a Banking Solution.
 - Extended the Warning Indicators ADF Task flow, by making relevant changes at frontend and back end.
 - Revamped the Transacting Party Details ADF Taskflow that helps prevent money laundering.
 - Redesigned Counter Party Maintenance Task flow, to help prevent money laundering in financial transactions.
- Tools: Java, Jdeveloper, ADF, JSFF, Servlets, JSP, WebLogic, Tomcat, JDBC, Eclipse, Service Oriented Architecture, JIRA.

Trip Tracker – Android App

Jan. 2015 – August 2015

Founder, Developer

Mumbai, India

- Developed an Android Application *Trip Tracker* for Mobile platform that tracks user's location and notifies friends based on location coordinates.
- Technologies Used: Java, XML, Android Studio, FAB, Crashlytics, UML, JSON, Google Maps API, Google Cloud Messaging (GCM), Push Notifications, Facebook Authentication API, Parse API.
- [GitHub Link](#) • [Play Store Link](#)

PROJECTS • [GITHUB HANDLE\(SAHIL2441\)](#)

Nachos Operating System • Stony Brook University

Aug. 2015 – Dec. 2015

- Implemented various system calls such as sleep(), exec(), join(), fork(), read(), write() and exit().
- Also Implemented semaphores, thread scheduling and process management routines, extending the functionality to handle Multi-threading and User Programming.
- Extended Nachos OS to implement Round Robin Scheduling, Multi Feedback Scheduling.
- Built a Console Driver for Nachos.
- Extended the functionality of the Nachos File system, implementing File Extension, Directory Structure, Single and Double Indirect Blocks.
- Extended Nachos to support demand paged, memory mapped files by adding two new system calls- Mmap() and Munmap(). Tools Used: C, Java, Eclipse IDE, Linux. • [GitHub Link](#)

Projects in Prolog • Stony Brook University

Aug. 2015 – Dec. 2015

- Performed Resolution operations and Herbrand Models in XSB, SWIPL variant of Prolog. Tools: XSB, Swi-PL, Prolog Development Tools. [GitHub Link](#) • [Stackoverflow Link](#)

Yelp Reviews Based Data Analysis • Stony Brook University

Aug. 2015 – Dec. 2015

- Conducted an analysis on 1.6 M yelp review that included Sentiment Analysis, Correlation plots, Calendar and World Heat maps. Tools: MySQL, Tableau, Stata, Excel, Matlab, Java. [Project Report](#)

NYC Open Data Analysis • Stony Brook University

Aug. 2015 – Dec. 2015

- Performed Chi Squared test, Hypothesis tests, Multiple Regression analysis on data sets from NYC Open Data. Tools: MySQL, Stata, Excel, Matlab, Java. [Project Report](#)

Capital Asset Pricing Model in Indian Context. IIT Roorkee

Spring 2012

- Implemented the CAPM model in the mutual fund Industry of India and showed that private sector companies have performed better than the public sector ones. Tools: R, Stata, Excel.