SAHIL JAIN

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EDUCATION

Stony Brook University • New York, U.S.A. *Fall 2015 – Dec 2016 (Expected)*
Master of Science, Computer Science
Courses: Analysis of Algorithms, Operating Systems, Computing with Logic, Compiler Design, Fundamentals of Computer Networks, Fundamentals of Data Science, Modelling and Simulation

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

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 next generation Banking Solution.
- Redesigned several Oracle ADF Task flow, to help prevent money laundering in financial transactions by making relevant changes at frontend and back end. Tools: Java, Jdeveloper, ADF, JSFF, Servlets, JSP, WebLogic, Tomcat, JDBC, Eclipselink, 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)*

Compiler for C type language *Jan. 2016 – Present*
- Designed and build a copiler in Python for C language that includes different phases of compiler design, such as Lexical Analysis, Syntax Analysis, Semantic Analysis, IR Code generation, Code Optimizations, and Final Machine Code Generation. • Tools Used: Python, PyCharm.

Domain Name Server Resolver *Jan. 2016 – Present*
- Implemented a DNS Resolver in Java that resolves DNS query to provide IP address.
- Used Round Robin Scheduling Algorithm to choose which root server to access. Tools Used: C, Java, Eclipse IDE, Linux. • GitHub Link

Nachos Operating System *Aug. 2015 – Dec. 2015*
- Extended Nachos OS to implement system calls, synchronisation primitives, thread scheduling algorithms.
- Also implemented implementing File Extension, Directory Structure, Single and Double Indirect Block and 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 *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 *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 *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