

SAHIL JAIN

700 Health Sciences Drive, Chapin C 1044B, Stony Brook, New York 11790

(631) · 542 · 3812 ◊ sahjain@cs.stonybrook.edu ◊ www.linkedin.com/in/sahil2441 ◊ www.github.com/sahil2441

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 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, 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.

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](#)