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*
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
Google Technologies	Google App Engine, Tradefed, Bigtable, Protocol Buffer
Databases	MySQL, Oracle
Tools	SVN, Git, Android Studio, Eclipse, Gradle, JDeveloper, Matlab, R
Technologies	JSP, Servlets, JDBC, Eclipse, ADF, WebLogic, Tomcat, JIRA.

WORK EXPERIENCE

Google Inc. *May. 2016 – August 2016*
Software Engineer, Tools and Infrastructure Intern *Mountain View, CA*
- Working with Android's Vendor Test Suite (VTS) team to achieve the mission : 'Next Billion Users'.
- Developed a Host-Driven Test Type (TradeFed, Java) , Result Parser (TradeFed, Java) and a Callable Handler Server (Python).
- Developed a Dashboard for Android O that integrates the above Framework using Google App Engine, Protocol Buffer and Bigtable, leading to increase in performance and security.

Trip Tracker – Android App *Jan. 2015 – August 2015*
Founder, Developer *Mumbai, India*
- Developed an Android Application *Trip Tracker* that tracks user's location and notifies friends based on location coordinates. Technologies Used: Java, Android Studio, Google Maps API, Google Cloud Messaging (GCM), Facebook Authentication API.
  GitHub Link • Play Store Link

Oracle Financial Services Software *Sept. 2014 – June 2015*
Applications Developer *Mumbai, India*
- Developed a series of Taskflows and APIs for Oracle Banking Platform – a next generation Banking Solution, leading to an increased security in the product.
  Technologies and Languages: Java, Jdeveloper, ADF, JSFF, Servlets, JSP, WebLogic, Tomcat, JDBC, Eclipselink, Service Oriented Architecture, JIRA.

PROJECTS • *GITHUB HANDLE(SAHIL2441)*

Nachos Operating System *Aug. 2015 – Dec. 2015*
- Extended Nachos OS to implement System Calls, Synchronisation Primitives and Scheduling Algorithms.
- Improved File System by implementing File Extension, Directory Structure, Single and Double Indirect Block.
- Extended Nachos to support Demand Paged, Memory Mapped Files by adding new System Calls : Mmap() and Munmap(). • GitHub Link

Network Topology using Mininet *March 2016 - April 2016*
- Implemented Custom Network Topology using Mininet and Quagga to set up Static Network Routes.
  GitHub Link

Domain Name Server Resolver *Jan. 2016 - Feb. 2016*
- 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. • GitHub Link

Compiler for Java type language *Feb. 2016 – May 2016*
- Designed and build a compiler in Python for Java type 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. • GitHub Link