SAAHIL JAIN
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EDUCATION:

Columbia University, The Fu Foundation School of Engineering and Applied Science, New York, NY   Expected May 2018
BS: Computer Science, Minor: Applied Mathematics, Economics
Academic Honors: Dean's List (4 of 4 semesters)
Relevant Coursework: Advanced Programming (C/C++), Fundamentals of Computer Systems, Data Structures / Algorithms in Java, Intro to Computing in Python, Intro to Computing in Java, Intro to Electrical Engineering, Linear Algebra, Intro to Probability and Statistics, Discrete Math, Ordinary Differential Equations, Multivariable Calculus

University School of Nova Southeastern University (High School)   May 2014
Academic Honors: Valedictorian, National Merit Finalist, National AP Scholar, Harvard Book Award

EXPERIENCE:

Société Générale Corporate and Investment Bank, New York, NY | *Software Engineering Intern*   June 2016 – August 2016
- Automated quality assurance (QA) tests on the trading platform, as part of the interest rate swaps team in front office technology. Developed unit, integration, and user acceptance tests (UAT) in C# / .NET with SpecFlow and NUnit in Visual Studio. Deployed tests on TeamCity server.
- Wrote daily environment health checks to signal problems for QAs and developers. Each morning, health checks indicate which financial instruments / properties of those instruments are not functioning properly on the UAT platform.
- Built script to automatically send and receive request for quotes (RFQs) on the trading application, automating a set of time-intensive acceptance tests that previously needed to be done manually by QA. Written in AutoIt and linked to SpecFlow.
- Presented my testing automation framework / documentation to front office technology teams and QAs across New York and Paris offices.

Wireless and Mobile Networking Lab, Columbia University | *Undergraduate Researcher*   September 2015-June 2016
- Designed a graphical user interface to visualize communication between low-power wireless, energy-harvesting nodes and thus demonstrate the efficiency of the "Power-Aware Neighbor Discovery for Energy Harvesting Things" (PANDA) algorithm. Written in Python with Tkinter and NetworkX.
- Created PANDA online monitoring system, which analyzes live data files to calculate / plot relevant statistics (e.g., discovery rate and latency for nodes / network) and other key metrics (e.g., capacitor voltage of nodes).

ListenMD, Davie, Florida | *Technology Intern*   July 2015-August 2015
- Helped develop medical app aimed at improving communication between doctors, nurses, and patients, setting up Google Cloud Messaging (GCM) to send notifications to users. App still in development.
- Worked on business plan / presentation for potential investors.

Champion Briefs Institute, Davie, Florida | *Debate Instructor*   June 2014-June 2015
- Taught a group of 20 students the fundamentals of argumentation and research in Lincoln Douglas debate.
- Presented multiple camp-wide lectures on ethics and strategy in debate.
- Lessons based on former experiences as 2012 Florida LD Debate Champion.

ACTIVITIES:

Application Development Initiative Labs, Columbia University | *Product Developer*   February 2016-Present
- Making a community forum for Columbia students / faculty with team of 7. Written with Ruby on Rails.

Columbia Energy Club | *Head of the Research Division*   April 2015-Present
- Research and present developments / news in energy sector at general body meetings and to the public via social media.
- Organize events showcasing researchers and experts in the energy field for the Columbia community.

Columbia Formula Society of Automotive Engineers | *Aerodynamics Team Member*   September 2014-September 2015
- Worked on team designing / implementing the diffuser for the underbody of our racecar to increase the car's speed for the Formula SAE North (Ontario, Canada) competition. Used CAD software and applied carbon fiber layups.

SKILLS:

Programming Languages: Java, Python, C, C++, C#, **Web:** Ruby on Rails, HTML/CSS, **Version Control:** Git, SVN
Technologies: UNIX, Windows, Eclipse / Visual Studio, Excel. Adept in command-line environment.
Language: English (proficient), Hindi (intermediate), Spanish (basic), **Modeling:** PTC Creo (basic), OpenSCAD (basic)