

APURVA PATKESHWAR

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EDUCATION

Courant Institute of Mathematical Sciences, New York University <i>Master of Science in Computer Science, 3.7/4.0</i>	New York, NY May 2018
Sardar Patel Institute of Technology, University of Mumbai <i>Bachelor of Engineering in Information Technology, 3.6/4.0</i>	Mumbai, India Jun. 2014

EXPERIENCE

Yahoo <i>Software Engineer Intern</i>	Sunnyvale, CA May – Aug. 2017
<ul style="list-style-type: none">• Incorporated real-time data streams into the guaranteed ads pipeline to reduce impression forecasting time from over 7 hours to less than 2 hours [Hadoop, Pig, Storm, Java]• Redesigned the availability matching algorithm by implementing in-memory indexes improving average search time from 5.2 seconds to 24 ms. Saved on infrastructure costs related to hosting and maintaining index servers	
Microsoft <i>Software Engineer</i> <i>Software Engineer Intern</i>	Hyderabad, India Jul. 2014 – Jul. 2016 Jun. – Aug. 2013
<ul style="list-style-type: none">• Developed a web app to visualize real-time information (occupancy, noise, temp.) about office spaces based on data received from 3D printed custom sensors. Built functionality to reserve conference rooms with just an RFID badge swipe using O365 API and EWS, which led to a 3x increase in monthly usage• Designed mobile-first, responsive UX for Microsoft's internal Kickstarter (crowdsourcing portal). Collaborated with global teams to implement virtual rewards based gamification built upon user interaction telemetry data which improved daily active users (DAU) by 200% [C#, Rest API, AngularJS]• Created a data-driven test case automation utility and automated over 500 regression test cases within 2 weeks which reduced the manual testing effort by 125 hours for each subsequent release cycle [.NET, WPF]	

PROJECTS

NYC Citi Bike and Taxi Analytics	Jan. – May 2017
<ul style="list-style-type: none">• Analyzed and aggregated insights from New York City's public bike sharing system and taxi datasets consisting 1.3 billion trips. Suggested the preferred mode of transport for new trips based on multiple factors. Recommended locations for new Citi Bike docking stations using clustering algorithms [Hadoop, Spark, Pig]	
Movie Search Engine	Sep. – Dec. 2016
<ul style="list-style-type: none">• Developed a scalable, personalized search engine for movies and actors with a latency of 0.4 seconds. Data was mined from a corpus generated by crawling and indexing IMDb and Wikipedia. Assisted users by correcting typographical errors, improving intent and recommending similar queries [Java, Servlet, MVC]	

AWARDS

Google Code Jam	Mar. 2017
<ul style="list-style-type: none">• Finished in the top 150 worldwide and was invited to attend the Google I/O 2017 developer conference	
Innovative Project Idea Award	Aug. 2013
<ul style="list-style-type: none">• Senior year project won amongst over 40 submissions across departments and was funded by the institute	

ADDITIONAL EXPERIENCE

Teaching Assistant, New York University	Sep. 2016 – Present
<ul style="list-style-type: none">• Assessed proficiency and provided individual constructive feedback to 50 students on problem sets featuring data structure design and implementation in a high-level language and analysis of algorithmic efficiency	
Lead, Microsoft MACH Education Committee	Jan. – Jul. 2016
<ul style="list-style-type: none">• Led and mentored 35 engineers from Microsoft Academy of College Hires (MACH) which worked on improving the level of technical and professional competence of new recruits by organizing numerous training sessions	

SKILLS

Languages: Java, C#, C++, Python, JavaScript, PHP, SQL, Hive, Pig, MATLAB

Platforms: Hadoop, Spark, Storm, Druid, .NET, AngularJS, Bootstrap, Azure, Android, Scikit, L^AT_EX