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VAIBHAV AGRAWAL

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EMPLOYMENT

Engineering Productivity Intern   **Mozilla**   **June 2015 - Present**
- Internship Presentation: https://air.mozilla.org/vaibhav_agrawal/
- Added triggering features to the reporting dashboard to make developers productive and check-ins faster
- Made a python script to automate parts of performance work-flow to verify if an alert is accurate. The script resulted in saving 20 man hours per month
- Developed a project to determine locally how the test is run in production in an automated way. Added features to make it work cross platform and in multi process mode.

Research Intern   **National University of Singapore**   **January 2015 - May 2015**
- Built Apache modules and scripts for a tool to optimize content delivery of websites on mobile by determining critical javascript. The tool improves the page load time of *New York Times* homepage by 5x on a mobile 3G network

Summer Intern   **Google Summer of Code 2014**   **April 2014 - August 2014**
Mochitest Failure Investigator (Gecko-Dev)
- Built a tool to investigate test failures and work backwards to find its failure point in Mochitest, an automated testing framework used by Mozilla
- Reduced the time taken for finding root cause failures from 5-6 hours to 30 mins

Summer Intern   **Pentair Water Pvt. Ltd.**   **May 2013 - July 2013**
- Built a desktop application to store and search the breakdown information of the unit, on wxpython

EDUCATION

Birla Institute of Technology and Science, Pilani
B.E.(Hons) Electronics and Instrumentation (August 2011 - August 2015)
- Computer Subjects: Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Principles of Programming Languages, Computer Programming, Information Retrieval, Digital Design, Website Performance Optimization, Discrete Structures of Computer Science, Microprocessor and Interfacing

Higher Secondary (Class XII) at Ruparel College, Mumbai (2011). Percentage: 90.83%
Secondary (Class X) at Gokuldham High School, Mumbai (2009). Percentage: 96.29%

OPEN SOURCE CONTRIBUTIONS

- **Firefox Performance Sheriff.** Responsible for finding performance regressions in Firefox, finding root causes and filing bugs to track issues
- **Search for Extraneous Test Automation (SETA).** A tool to find minimum number of jobs required to detect failures on integration machines in Mozilla. Reduced the overall number of jobs by 75%.
- **Mozilla CI Tools.** Command line tools that interact with Mozilla's continuous integration system to bisect intermittent failures, trigger and back fill test jobs.
- **Treeherder-Client.** Library to submit and retrieve data for a reporting dashboard used for check-ins to Mozilla projects
- **Alert Manager**. A dashboard to keep track of performance alerts

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

- Core contributor to the Mozilla Automation and Tools Team (A-Team) - Bugzilla Profile
- Regionalist at ACM ICPC, 2013 held at Amritapuri, India.
- Responsibly disclosed security vulnerabilities to Zomato, Snapchat, Snapdeal and Commonfloor
- SPOJ (Sphere Online Judge): Profile (Solved 200+ algorithmic problems, below 2000 World Rank)

LANGUAGES AND TECHNOLOGIES

- Python (Advanced), Javascript, C++, C, SQL, bash, Java
- Django, Flask, HTML, CSS, Git, Mercurial