

# SAI PRASHANTH C

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## SUMMARY

A Computer Science Graduate student having over 3 years of experience with **creating and designing websites and web apps**, right from **UI** with **HTML, CSS, and JavaScript** to getting down-n-dirty with **server side scripting using PHP, Node.js and MySQL**.

## EDUCATION

<b>MS in Computer Science, Arizona State University (3.33/4.00)</b>	Aug 2014 - Present
<b>B.E. in Computer Science and Engineering, Anna University. GPA 8.58/10 (4.00/4.00)</b>	March 2014

## EXPERIENCE

<b>Cloud Services Intern, Mozilla Corporation.</b> <ul style="list-style-type: none"><li>Designed and developed a <b>2-Factor Authentication system</b> for <b>Firefox Accounts</b> using <b>Node.js</b> with <b>Google-Authenticator</b>, and <b>SMS</b> as a backup 2<sup>nd</sup> factor.</li><li>Fixed <b>11 bugs</b> on multiple <b>Firefox Services</b>, including Content-Server and Authentication-Server, improving <b>Security, Efficiency and Performance</b>.</li><li>Ported the <b>Test-linting</b> system from <b>JSHint</b> to <b>ESLint</b> for <b>6 services</b>, improving <b>productivity</b> and <b>code quality</b>.</li></ul>	Summer 2015
<b>Teaching Assistant, Arizona State University.</b> <ul style="list-style-type: none"><li>Evaluated and graded the projects done by undergrads for the <b>Capstone Project I and II</b>.</li></ul>	Fall 2014
<b>Co-Founder, Webgyor Waves, Inc.</b> <ul style="list-style-type: none"><li>Co-founded the startup, Webgyor Waves in my 3<sup>rd</sup> year of undergrad along with 4 other students.</li><li>Developed websites and web apps – Shopping carts, Inventory Management Systems, Portfolio Websites using <b>HTML, CSS, JavaScript, AJAX, PHP and MySQL</b>.</li></ul>	Jan 2013 - Present

## ACADEMIC PROJECTS

<b>Distributed Operations on Apache Spark.</b> <ul style="list-style-type: none"><li>Built distributed <b>Geometric operations</b> such as Union, Farthest Pair, Shortest Pair and <b>Spatial operations</b> such as Join, Range and Aggregation, on distributed clusters using <b>Java 7 Spark API</b> and Apache SPARK.</li><li>Ported several popular algorithms like <b>Graham Scan</b> to the distributed paradigm.</li><li>Showcased a <b>210% performance improvement</b> in processing times on <b>Amazon EC2 Cluster T2</b>-instances, for a <b>5 GB dataset</b>, compared to non-distributed operations.</li></ul>	Spring 2015
<b>CricTracker – Sports dataset mining tool.</b> <ul style="list-style-type: none"><li>Developed an app to mine sports data (cricket) and build up the best possible team based on a wide variety of attributes including communication cost, player strengths etc.</li><li>Implemented a <b>Team selection algorithm (T-SAI)</b>, extending the Avalanche Routing Algorithm (AvRA, IBM), and made use of the Dijkstra's Algorithm to add nodes that resulted in the least cost.</li></ul>	Spring 2015
<b>Asynchronous Server Platform- Optimization over traditional platforms</b> <ul style="list-style-type: none"><li>Designed and developed an asynchronous server using <b>Node.js</b>, to support a <b>real time game</b> and a <b>stock market system</b>, made a comparison study with traditional systems built using PHP and Java.</li><li>Benchmarked and showcased a <b>Best-case scenario of 328%</b> improvement in the no. of requests serviced per second, and a <b>worst case scenario of 109%</b> compared to vanilla <b>PHP/Java</b>.</li></ul>	Spring 2014

## EXTRA-CURRICULAR PROJECTS

<b>IdLink Systems</b> <ul style="list-style-type: none"><li>Developed a HIPAA compliant multi-factor authentication system using <b>JavaScript</b> and <b>PHP</b> for Dignity Health.</li></ul>	Fall 2014
<b>Chain reaction - Browser Version</b> <ul style="list-style-type: none"><li>Ported the popular game "<b>Chain reaction</b>" to the browser using <b>HTML, CSS and JavaScript</b>.</li><li>Programmed it to run on <b>cross-platform</b> at a small <b>size of 6kb</b>, with <b>no usage of any library/framework</b>.</li><li>Designed the game to run <b>offline</b> (more of an app than a browser game).</li></ul>	June 2014
<b>Angel Ceramics</b> <ul style="list-style-type: none"><li>Built a full blown inventory control system, complete with <b>user authentication</b>, adding, editing, removing items and <b>exporting the data</b> into other formats (MS Excel .xls, json, CSV etc) for a ceramics factory.</li><li>Built with <b>PHP</b> and <b>MySQL</b> as backend, and using <b>JS</b> and <b>AJAX</b> to give the user a responsive control system.</li></ul>	Mar 2014 - Apr 2014

## HONORS AND AWARDS

<b>Best Outgoing Student 2010-2014, MNM Jain Engineering College, Anna University (out of 113 students).</b>	Apr 2014
<b>Most innovative undergrad project, MNM Jain Engineering College, Anna University (out of 48 projects).</b>	Apr 2014
<b>Won 49 prizes in 34 State-level and National-level symposiums, in events like Web Designing(17), Debugging/Coding (7), Tech Quiz(9), Paper Presentations (9) etc</b>	Aug 2011 – Mar 2014

## TECHNICAL SKILLS

**Technologies:** HTML, CSS, JavaScript, AJAX, C, C++, Java, Python, Node.js, PHP, MySQL, XML, LESS, Android App Dev.  
**Frameworks/Libraries:** jQuery, RaphaelJS, Bootstrap, KeylemonJS, jQueryUI, AngularJS, Mocha, Sinon, ESLint, Chai.