SAI PRASHANTH C

625 W 1st Street, #107, Tempe, AZ 85281 | 480-703-5615 | saiprash1993@yahoo.co.in | in.linkedin.com/in/saipc | webgyorwaves.com | github.com/TDA

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

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

EXPERIENCE

Cloud Services Intern, *Mozilla Corporation.* · Designed and developed a **2-Factor Authentication system** for **Firefox** Accounts using **Node.js** with **Google-Authenticator**, and **SMS** as a backup 2nd factor. · Implemented a **Password Strength Checker** for **Firefox** Accounts, using a **Bloom Filter** that maintains a list of common password hashes. · Implemented a **HTML parser** to scan generated html pages and email translations and remove **malicious translations** to prevent **cross-site scripting** vulnerabilities. · Ported the **Test-linting** system from **JSHint** to **ESLint** for **6 services**, improving **productivity** and **code quality**.	Summer 2015
Teaching Assistant, *Arizona State University.* · Evaluated and graded the projects done by undergrads for the **Capstone Project I and II**.	Fall 2014
Co-Founder, *Webgyor Waves, Inc.* · Co-founded the startup, Webgyor Waves in my 3rd year of undergrad along with 4 other students. · Developed websites and web apps – Shopping carts, Inventory Management Systems, Portfolio Websites using HTML, CSS, JavaScript, AJAX, PHP and MySQL**.**	Jan 2013 - Present

ACADEMIC PROJECTS

Distributed Operations on Apache Spark. · Built distributed **Geometric operations** such as Union, Farthest Pair, Shortest Pair and **Spatial operations** such as Join, Range and Aggregation, on distributed clusters using **Java 7 Spark API** and Apache SPARK. · Showcased a **210% performance improvement** in processing times on **Amazon EC2 Cluster** T2-instances, for a **5 GB dataset**, compared to non-distributed operations.	Spring 2015
CricTracker – Sports dataset mining tool. · 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. · Implemented a **Team selection algorithm (T-SAI)**, extending the **Avalanche Routing Algorithm** (AvRA, IBM), and made use of the Dijkstra's Algorithm to add nodes that resulted in the least cost.	Spring 2015
Asynchronous Server Platform- Optimization over traditional platforms · Designed and developed an asynchronous server using **Node.js**, to support a **real time game** and a **stock market system**, made a comparison study with traditional systems built using PHP and Java. · Benchmarked and showcased a **Best-case scenario of 328%** improvement in the no. of requests serviced per second, and a **worst case scenario of 109%** compared to vanilla **PHP/Java.**	Spring 2014

EXTRA-CURRICULAR PROJECTS

Chain reaction - Browser Version · Ported the popular game **"Chain reaction"** to the browser using **HTML, CSS and JavaScript.** · Programmed it to run on **cross-platform** at a small **size of 6kb, with no usage of any library/framework.** · Designed the game to run **offline** (more of an app than a browser game)**.**	June 2014
Angel Ceramics · Built a full blown inventory control system, complete with **user authentication**, adding, editing, removing items and **exporting the data** into other formats (MS Excel .xls, json, CSV etc) for a ceramics factory. · Built with **PHP** and **MySQL** as backend, and using **JS** and **AJAX** to give the user a responsive control system.	Mar 2014 - Apr 2014

HONORS AND AWARDS

Best Outgoing Student 2010-2014, *MNM Jain Engineering College, Anna University* **(out of 113 students).**	Apr 2014
Most innovative undergrad project, *MNM Jain Engineering College, Anna University* **(out of 48 projects).**	Apr 2014
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**	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, JSHint, Chai.