# SAI PRASHANTH CHANDRAMOULI

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#### **SUMMARY**

A Computer Science Graduate student specializing in Web based Security, with a thesis on E-Mail Header Injection vulnerabilities, having over 3 years of experience with creating and designing websites and web apps, from UI with HTML, CSS, and JavaScript to getting down-n-dirty with server side scripting using PHP, Java, Node.js and MySQL.

#### **EDUCATION**

Arizona State University, M.S. in Computer Science. GPA 3.33/4.00	Aug 2014 – Present
Anna University, B.E. in Computer Science and Engineering. GPA 8.58/10 (4.00/4.00)	March 2014
EXPERIENCE	
Mozilla Corporation, Cloud Services Intern.	Summer 2015
Designed and developed a <b>2-Factor Authentication system</b> for <b>Firefox</b> Accounts using <b>Node.js</b> with <b>Google-</b>	
Authenticator, and SMS as a backup 2 <sup>nd</sup> factor.	
Implemented a Password Strength Checker for Firefox Accounts, using a Bloom Filter that maintains a list of	
common password hashes, that got merged in Firefox-41 train (to ~90 million users).	
Deployed an HTML parser to scan generated HTML pages and E-Mail translations and remove malicious	
translations to prevent cross-site scripting vulnerabilities, in Firefox-40 train.	
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> .	
Arizona State University, Teaching Assistant.	Fall 2014 -
· Evaluated and graded the undergrad projects for the Capstone Project I and II.	Present
· Currently serving as TA for <b>Principles of Programming Languages.</b>	
Webgyor Waves, Inc., Co-Founder.	Jan 2013 –
· Scheduled and managed meetings with clients, analyzed requirements and worked on quotations.	Present
Engineered websites and web apps – Shopping carts, Inventory Management Systems, and Portfolio Websites	
using HTML, CSS, JavaScript, AJAX, PHP, and MySQL.	
ACADEMIC PROJECTS	
Distributed Operations on Apache Spark – Arizona State University.	Spring 2015
· 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 Java 7 Spark API and Apache SPARK.	
Showcased a 210% performance improvement in processing times on Amazon EC2 Cluster T2-instances, for a	

#### Operation Knock-Knock – Secret Spy Web App – Arizona State University.

**5 GB dataset**, compared to non-distributed operations.

Spring 2015

- · Created a web app with security features like knock sequences, XSS and SQL injection prevention.
- · Scanned user input for malicious payloads, and added suitable sanitizations routines, along with URL rewriting.
- · Wrote a Python script that automatically generates such an app from a plain English description.

#### Asynchronous Server Platform – Optimization over traditional platforms – Anna University.

Spring 2014

- · Designed and developed an asynchronous server using Node.js, to support a real time game and a stock market system, and 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.

#### **TECHNICAL SKILLS**

Technologies: HTML, CSS, JavaScript, AJAX, C, Java, Python, Node.js, PHP, MySQL, Android App Dev, XML, LESS, Git.

Frameworks/Libraries: jQuery, RaphaelJS, Bootstrap, KeylemonJS, jQueryUI, AngularJS, Mocha, Sinon, ESLint, JSHint, Chai, Spring.

### **EXTRA-CURRICULAR PROJECTS**

IdLink Systems	Fall 2014
· Prototyped a HIPAA compliant multi-factor authentication system using JavaScript and PHP for Dignity Health.	
Chain reaction – Browser Version	June 2014
· Ported the popular game "Chain reaction" to the browser using HTML, CSS, and JavaScript as an HTML5 app.	
· Programmed it to run cross-platform at a small size of 6kb, with no usage of any library/framework.	
Angel Ceramics	Mar 2014 –
· Crafted a full blown inventory control system, complete with user authentication, adding, editing, removing	Apr 2014
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.	
HONORS AND AWARDS	

## 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),	Aug 2011 -
Debugging/Coding (7), Tech Quiz (9), Paper Presentations (9), etc.	Mar 2014