Sai Prashanth Chandramouli

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**SUMMARY**

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| A Computer Science Graduate student specializing in Web based Security, with a thesis on E-Mail Header Injection vulnerabilities, having over 4 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**

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| Arizona State University, *M.S. in Computer Science*. GPA 3.50/4.00 | Aug 2014 – Present |
| Anna University, *B.E. in Computer Science and Engineering*. GPA 8.58/10 (4.00/4.00) | March 2014 |

**EXPERIENCE**

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| Mozilla Corporation*,* *Cloud Services Intern*.   * 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, 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 Test-linting system from JSHint to ESLint for 6 services, improving productivity and code quality. | Summer 2015 |
| Arizona State University, *Teaching Assistant*.   * Evaluated and graded the undergrad projects for the Capstone Project I and II. * Created and evaluated exams as a TA for Principles of Programming Languages. * Designed and implemented a differential grading schema for lateral movement through a Hacking leaderboard as a TA for Software Security. | Fall 2014 – Spring 2016 |
| Webgyor Waves, Inc., *Co-Founder*.   * Scheduled and managed meetings with clients, analyzed requirements and worked on quotations. * Engineered websites and web apps – Shopping carts, Inventory Management Systems, and Portfolio Websites using HTML, CSS, JavaScript, AJAX, PHP, and MySQL. | Jan 2013 –Present |

**ACADEMIC PROJECTS**

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| Distributed Operations on Apache Spark – Arizona State University.   * 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 |
| Operation Knock-Knock – Secret Spy Web App – Arizona State University.   * 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. | Spring 2015 |
| Asynchronous Server Platform – Optimization over traditional platforms – Anna University.   * 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. | Spring 2014 |

**TECHNICAL SKILLS**

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| 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**

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| IdLink Systems   * Prototyped a HIPAA compliant multi-factor authentication system using JavaScript and PHP for Dignity Health. | Fall 2014 |
| Chain reaction – Browser Version   * 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. | June 2014 |
| Angel Ceramics   * Crafted 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**

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| 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 |