

EMPLOYMENT

Technical Support Specialist, Part time **Indiana University** **Feb 2015 - Present**

- Configure out of the box MacBook's and Windows machines to comply with the university IT policies.
- Deploy BootCamp to dual boot OS X and Windows OS and setup Adobe suite of products.
- Update the KB with up-to-date information and how-to's.
- Maintain network, VoIP and Video Conferencing infrastructure.

Consultant, Part time **Indiana University** **Oct 2014 – Feb 2015**

- Worked on a project to redesign the Business Intelligence portal with responsive design approach.
- The new approach resulted in 22% less object requests per page load.
- Improved the report filtering capability resulting in 75% time saved for each search.

Analyst, Ad Traffic Quality Operations **Google** **Jul 2013 – Jul 2014**

- Analyzed terabytes of datasets using Google tools like SQLMR, PowerDrill etc.
- Responsible for detecting and preventing click fraud on AdSense product by reviewing publisher business models, analyzing traffic to detect spam rings, bots, scrapers, and malware.
- Reviewed over 3000 publisher accounts & appeals resulting in over \$2bn credits to advertisers.
- Proposed a proactive workflow for malware (ad injectors & browser hijackers) reviews in AdSpam Ops team.
- Collaborated with Safe Browsing Ops team in detecting a malware affecting 250+ AdSense accounts & ad clicks worth \$600k

Co-founder/Developer **Eduron e-Learning Pvt Ltd** **Jul 2011 – Jun 2013**

- Co-founded a start-up in the e-Learning vertical with a couple of Internet portals for students in India.
- Worked on delivering live and on-demand video lessons to students at remote locations.
- Launched mobile apps on Android platform to improve reach and accessibility.

EDUCATION

Bloomington, Indiana **Indiana University** **Aug 2014 – May 2016**

- Master of Science in Computer Science; Current G.P.A.: 3.4/4.0.
- Specialization in Security stream.
- Graduate Coursework: Algorithms, Computer Networks, Malware – Threat & Defense, Mobile Computing, Security for Networked Systems, Information Architecture for the Web.

Vijayawada, India **Acharya Nagarjuna University** **Jul 2009 – May 2013**

- Bachelor of Technology in Computer Science; G.P.A.: 77.2/100.0.
- Completed internships at Internshala and University of Hyderabad.
- Undergraduate Coursework: Principles of Programming Languages, Compiler Design, Automata Theory, Computer Networks, Operating Systems, Data Structures, Algorithms, Discrete Mathematics etc.

Languages & Technologies

- **Proficient in** Python, HTML5, CSS3, JavaScript, PHP, Ajax, SQL, jQuery UI, MVC Architecture, CodeIgniter
- **Intermediate level skills in** C, C++, Java, Shell Scripting, C# ASP.NET, Twitter Bootstrap
- **Operating Systems experience** – Windows, OS X, RHEL and CentOS flavors, Ubuntu and Debian flavors
- **Version Control & Issue Tracking** – Git, TFS, and Jira

VOLUNTEER EXPERIENCE

Make a Difference, India (2012 - 2013):

- Taught Cambridge curriculum English (Primary & Secondary) to underprivileged kids at the Child Aid Foundation, Vijayawada.
- Took part in meetings at national level and contributed to betterment of instruction delivery.

ACADEMIC PROJECTS

BitTorrent Client

- Implemented BitTorrent specifications into a client in C using sockets.
- Functionality includes 1 seeder – 1 leecher, 1 seeder – N leechers, and N seeders – N leechers.

Port Scanner

- Implemented port scanner in C using raw sockets, hashmaps and multi-threading.
- The tool can scan in SYN, FIN, NULL, Xmas, and UDP modes.
- The tool is also capable of recognizing the version number of software running on standard ports.

An Approach to Detect SSL Vulnerabilities in Android Applications

- Developed a system to scan Android apps and detect SSL vulnerabilities like POODLE.
- The system also flags apps that do not verify the validity of SSL certificate used by the backend servers.
- Used a man-in-the-middle proxy to observe the network traffic.

Disease Outbreak Monitoring & Surveillance

- Detects outbreak of pandemic diseases using Machine Learning (Google Predict) and WSARE algorithm.
- WSARE algorithm was used at Utah Olympics to detect outbreak of diseases and this is its implementation in a smaller scale.
- The system makes use of univariate time series data pumped in by hospitals into our data warehouse

PERSONAL PROJECTS

NetBadi – The Online School

- One of India's largest e-Learning portals with over 2,000,000 page views a year.
- Receives traffic spikes of about 90,000 requests a second handled by load balancer and multiple backends.
- Fully responsive with mobile first design complemented by mobile applications for Android platform.
- PHP, HTML5, CSS3, jQuery, MySQL, CodeIgniter, Twitter Bootstrap, Amazon EC2, Google Analytics.

MyVisaInterview.com

- A fully responsive web portal for prospective F1 students who have secured admissions in US universities.
- A highly effective anti-abuse mechanism (even resistant to PhantomJS) that prevents spammers from posting irrelevant Visa interview experiences in the website
- The system is capable of differentiating legitimate users from spammers and bots to a decent level of accuracy, thereby offering a smooth experience to genuine users and tough times to spammers/bots.
- Auto-scaling database servers based on load to ensure 100% availability.
- Backend administrative dashboard developed using AngularJS.
- PHP, HTML5, CSS3, jQuery, MySQL, CodeIgniter, Twitter Bootstrap, self-hosted servers, Google Analytics.

CapslockTrojan.com

- Technical blog with documentation of my experiences with uncommon tasks and contemporary issues.
- WordPress, self-hosted servers, HTML5, CSS3, Google Analytics.

CERTIFICATIONS

- Microsoft Certified Professional: Programming with HTML5 & CSS3 (License # 9646761)