

Nitika Khurana

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EDUCATION

University of Maryland, Baltimore County (UMBC), MD

Master of Science in Computer Science

GPA: 3.95/4.0

Expected: May 2018

- *Thesis:* Securing AI - Improving standards for cybersecurity ontology to detect and prevent knowledge graph poisoning
- *Relevant Coursework:* Design and Analysis of Algorithms, Advanced Operating Systems, Mobile Computing, Internet of Things

Guru Gobind Singh Indraprastha University (GGSIPU), Delhi, India

Bachelor of Technology in Computer Science

GPA: 4.0/4.0

Graduated: June 2013

PROFESSIONAL EXPERIENCE

University of Maryland, Baltimore County

Graduate Teaching Assistant for the course, CMSC 681, "Advanced Computer Networks"

Baltimore, MD

August 2017 to Present

- Prepare assignments and course project materials and design course website
- Generate projects modeling real world problems for students and conduct review and lab sessions

Gallup

Software Developer Intern

Omaha, Nebraska

May 2017 to August 2017

- Analyzed email subscription data of Gallup's two major campaigns, "Clifton Strengths" and "Gallup Certified Coaches" to restructure Gallup's marketing strategies like Marketo and Adobe; formalized these reports for Gallup.com in **C#/ASP.NET** by auditing the StrongView survey tool and devised **SQL** queries to fetch the email campaign data, thereby augmenting product sales by **70%**
- Designed Gallup's fitness center application to allow users to create, update and keep track of scores for various fitness challenges available and claim rewards for the scores earned
- Orchestrated daily scrums to point and estimate the effort for user stories in **JIRA**
- **Counseled** high school interns in their projects and delivered knowledge transfer sessions within the team

Infosys Limited

Senior Systems Engineer

Chandigarh, India

October 2013 to July 2016

- Developed two **Java** applications for American Express: vPayAdmin, to issue virtual credit cards to customers and vPOL, to allow customers to set up their funding accounts and manage transactions
- Constructed these applications using **Spring MVC**, fabricated WSDL files to expose banking service descriptions, defined **SOAP** web services to perceive service requests, implemented Data Access Object (DAO) calls to retrieve requested data from database, created stored procedures and functions in **Oracle SQL** for different transactions, and monitored the reported data using **Splunk**
- Designed a "feedback portal" for the application and incorporated multi-lingual support to the application (**Internationalization**)
- Served as an interim **Scrum Master**; led client calls, evaluated effort for user stories, tracked, and updated daily statuses in RALLY

Hindustan Times Media Limited

Full Stack Developer Intern

Delhi, India

June 2012 to August 2012

- Engineered a **Java (Struts2/Hibernate)** application for the organization to allocate, track and deallocate inventories available to its **300+** employees
- Enhanced accessibility for Facilities team to easily monitor allocations and for employees to track renewal policy deadlines

TECHNICAL SKILLS

Computer Languages: Java, JavaScript, Python, C#, C++, PHP(Beginner)

Tech/Frameworks: HTML5, CSS3, jQuery, Node.js, REST, React, JSON, AJAX, Angular, Bootstrap, XML, Spring MVC, Hibernate, JPA, SOAP, JSP, WSDL, Struts2, JUnit, Scrum

Databases: MySQL, MS SQL Server, Oracle, MongoDB

Operating Systems: Windows, Linux, Android

Applications/Tools: GitHub, AWS EC2, Azure(Beginner), SVN, RALLY/JIRA, Jenkins, Maven, Google APIs

PROJECTS

- *Course Selection System:* Devised an algorithm to allow students to assess difficulty level of each subject under different professors during course registration to reduce the overhead incurred by departments (CSEE, Finance) during class drops
- *New Eleusis:* Implemented an algorithm for a card game that aimed to identify a card-throwing rule set forth by the dealer using the concepts of Artificial Intelligence and Machine Learning that achieved an accuracy of over 85%
- *MIPS:* Designed an algorithm to implement a MIPS simulator in **Java** that accepts a MIPS instruction set, dynamically schedules instruction execution, and calculates the scoreboard based on the fed configuration for different elements
- *Grub:* Constructed an **Android** app to suggest recipes out of left-over food ingredients aimed to serve every lazy college student using **Google** and **Facebook** APIs for login