ANKUSH VARSHNEYA
4 Stoneleigh St, Ottawa, ON K2G 7A2
(613) 823-2635 • AnkushVarshneya@outlook.com
github.com/AnkushVarshneya • AnkushVarshneya.azurewebsites.net

EDUCATION

Bachelor of Computer Science (Co-op)   September 2011 – September 2016
Carleton University, Ottawa, Ontario, Canada
- Specialization in Network Computing; Minor in Statistics; CGPA: 3.7/4

SKILLS

- *Languages*: SQL(PL/Embedded/JDBC), HTML5, CSS3, Bootstrap, JQuery, Java, VB.Net, C, C++, Prolog, Scheme, AJAX, PHP
- *Tools and Frameworks*: DataTable.js, ASP.NET MVC Framework, Entity framework, Hibernate framework, JPA, swing AWT, VIM, GIT, Subversion, JIRA, TFS, LaTeX, SSH, GDB, GCC, G++, Valgrind, Embarcadero, LDAP, IIS/Apache, Terminal calls, Bash Scripts, Balsamiq

WORK EXPERIENCE

Programmer / Analyst   May 2014 – August 2015
Office of the Auditor General of Canada (OAG), Ottawa, Ontario
- Developed and designed maintenance related functionality inside a .NET based web application using the .NET MVC and Entity frameworks with a combination of HTML5, CSS3, AJAX, JavaScript/JQuery, Bootstrap and the Data Tables plug-ins; allowing admins to maintain data within the web application, eliminating the use of 3rd party solution for maintenance
- Refactored pre-existing code base and carried out tests cases to determine software defect resulting in a bug free product
- Used Embarcadero to help model and create schema of an application to allow it to store data effectively
- Created API's within an application to allow front-end developers to effectively create the user interface
- Updated the database using SQL and performed maintenance related tasks on other products to allow for accurate data
- Implemented an engine to automate emails to users based on an event in the application using SMTP protocol

Java Developer and Designer   May 2013 – December 2013
Nakina Systems – Network Integrity (Acquired by Nokia), Kanata, Ontario
- Revamped the legacy logging component of a J2EE based Network Operating System (NOS) to be more current
- Created a more efficient application within NOS by restructuring the logging system from the back-end, in order to make the data more organized and generalized, as well as developing upon existing EJBs and APIs in back-end / front-end code
- Implemented SQL amenders to translate existing log to new log structure making upgrades on systems more manageable
- Implemented Common Event Format (CEF) logs via syslog support using syslog4j and log4j providing users the ability to use 3rd party logging solutions to view logs generated by the NOS system in real time
- Co-implemented dependency free version of a product for internal use to help developers easily test and develop upon
- Worked with Hibernate framework and Java Persistence API to optimize various back-end codes of the template credential module

Web Developer/IT Personnel   May 2012 – August 2012
National Research Council of Canada (NRC), Ottawa, Ontario
- Developed a web application using a IIS, MSSQL, PHP, HTML, CSS, JavaScript solution, which allowed users to enter resource/facility usage data electronically and automatically generate reports / invoices as needed, based on requirements gathered from business users through regular consultations; eliminating a paper based approach for a more efficient web based one
- Secured web application by integrating LDAP for authentication allowing administrators to better track users
- Gained IT experience by assisting IT Personnel with minor tasks to accomplish them in a timely and organized fashion

PROJECTS

WordPress Website   **github.com/AnkushVarshneya/wordpress-theme**
- Forked a WordPress theme and made various customization to use with a personal site using PHP, CSS, JQuery, datatable.js

Association Rule Miner (Based on the Apriori Algorithm)   **github.com/AnkushVarshneya/Apriori**

Data Classifier (Based on Bayesian Classifiers and Decision trees)   **github.com/AnkushVarshneya/classification**

Mancala Game with an auto solve AI   **github.com/AnkushVarshneya/Mancala-Game**
- Uses minimax searching and alpha-beta pruning AI techniques and was build using Java and AWT swing

Knight Game (based on the snake game) with an auto solve AI   **github.com/AnkushVarshneya/knight-Game**
- Uses blind search and intelligent search AI techniques and was build using Java and AWT swing

Tor-Messenger   **github.com/AnkushVarshneya/Tor-Messenger**
- A proof of concept tor messaging app built using Tor and Java, contributed to the UI and the sending functionality of the messages

CUTPS-system   **github.com/AnkushVarshneya/CUTPS**
- A Textbook Publishing System which allowed users to buy and sell books and was built using C++, QT, SQL