Shivangi Patwardhan

shivangipatwardhan2018.github.io

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EXPERIENCE

CIBC | Technical Systems Analyst
May 2015 - September 2015 | Toronto, ON

- Developed a new SharePoint Site Solution Design team with easy to use Project Status reporting, ticket tracking, team calender etc.
- Helped execute a pilot project to implement new vendor selection guidelines within Wealth Management Technology

UNIVERSITY OF WATERLOO | Network Support Assistant
September 2014 – December 2014 | Waterloo, ON

- Used PHP, HTML, JavaScript and MySQL to completely develop a web application: The MAC Address Registry to help catalog devices across campus
- Added Data Validation to prevent XSS, Active Directory, CAS and Cookie Hashing

PROJECTS

PERSONAL WEBSITE | HTML/CSS, JavaScript, Aptana Studio

- Web portfolio of my projects
- See website at: shivangipatwardhan2018.github.io

BREAKOUT! GAME | Java 8, Swing, Eclipse IDE

- Coded a multi-level rendition of the classic BreakOut! Game
- Utilized the Painter's Algorithm for proper graphics rendering, handled real-time drawing and animation.

FOTAG! IMAGE RANKING WEB AND ANDROID APPLICATION | Java 8, Swing, Eclipse IDE, Android Studio

- Created a Java Web Application and a companion Mobile Application in Android to upload/download images, rate and filter images based on rating
- Implemented Model-View-Controller design pattern, visual design and dynamic layout

AUGMENTED AND IMPROVED AN ELEMENTARY OPERATING SYSTEM - OS/161 | C , GDB for Debugging

- Gained exposure to handling and working with a very large code base
- Implemented Locks and Conditional Variables from scratch
- Implemented system calls: system-fork, getpid, waitpid, evecv with argument passing
- Added a memory management system with dynamic allocation to avoid memory leaks

SOUND FILTERING AND IMAGE COMPRESSION USING FOURIER TRANSFORM ALGORITHMS | Matlab

- Compressed images by dropping small Fourier coefficients from pixel sub-blocks with respect to the problem drop tolerance
- Used Fast Fourier Transformation to filter sound bits by separating high frequency sounds from low frequency sounds

EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Computer Science, Co-op
Expected April 2018 | Waterloo, ON

HOMESTEAD HIGH SCHOOL
Graduated: June 2013| Cupertino, California

SKILLS

LANGUAGES

- ✓ C
- ✓ C++
- ✓ Java
- ✓ HTML/CSS
- ✓ JavaScript

SCRIPTING

- ✓ Python
- ✓ Bash

DATABASE MANAGEMENT

- ✓ SQL/MySQL
- ✓ DBSM Methodology

TOOLS AND SOFTWARE

- ✓ Matlab
- ✓ Vim
- ✓ Git/Github
- ✓ Android Studio
- ✓ Aptana Studio
- ✓ MS SharePoint