Aaiz N Ahmed

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EXPERIENCE:

Software Engineer – Rockwell Collins   January 2017 – Present
- Utilize agile development methodology to develop products for customers and tools for internal use.
- Provide post development monitoring services to the customers after successful deployment.
- Review code written by other team members and write code to perform unit testing on it.
- Introduce new features to existing company tools to increase productivity and efficiency.

Systems Test Engineer – Rockwell Collins   June 2016 – December 2016
- Planned and conducted system level testing, including functional, regression, merge and integration testing.
- Documented all test results and notified developers about any unexpected results.
- Thoroughly reviewed user documents before handing them over to the customer.

Software Engineering Intern - Lockheed Martin   May 2015 – August 2015
- Collaborated on En Route Automation Modernization (ERAM) program and converted AWK scripts to Perl.
- Coordinated with my department in updating aircraft to aircraft conflict detection software.

SKILLS:

Programming: Java, Python, JavaScript, HTML/CSS, C/C++, PHP, SQL, Assembly x86
Software: Linux, Git, Eclipse, PyCharm, Microsoft Office, MobaXterm, WinSCP, TeamViewer, VirtualBox

PROJECTS:

Resource Monitoring Tool Enhancement   February 2017 – March 2017
- Designed and implemented new health monitoring capability for a component as requested by a customer.
- Modified existing software architecture to accommodate new feature into the system.
- Individually managed and implemented the project from requirements definition through successful deployment.

Tic Tac Toe AI Implementation   March 2017
- Developed a smart Tic Tac Toe game in JavaScript and Java.
- Implemented minimax algorithm to develop an AI that plays Tic Tac Toe and never loses.
- Used HTML/CSS and Java GUI packages to develop UIs for a human player to play against the AI.

Pocket Calculator   February 2017
- Applied theoretical knowledge to implement a calculator with JavaScript, HTML and CSS.
- Using stack implemented a postfix algorithm to convert an equation from prefix to postfix notation.
- Allowed user to chain mathematical operations together and utilized a stack to perform accurate calculations.

Software and OS Upgrade (Team Project)   September 2016 – November 2016
- Wrote comprehensive test plan to perform functional, regression, and integration tests for a system upgrade.
- Documented the test environment and software versions used for testing.
- Collaborated with software developers to perform tests and report any anomalies.

An Adventure Text Game   Spring 2016
- Applied data oriented design techniques and components to develop a text game.
- Efficiently utilized prefetching mechanism to boost up the CPU performance.
- Avoided cache pollution by using dense arrays of component classes to manage the game data.

EDUCATION:

University of Maryland Baltimore County (UMBC)   Baltimore, MD
Bachelor of Science, Computer Science, Cum Laude, GPA: 3.52   May 2016

SPECIAL HONORS:

President's List UMBC (4.0 GPA out of 4.0)   Fall 2013, Spring 2016
Semester Academic Honors UMBC (3.5 or higher GPA out of 4.0)   Spring 2014, Spring 2015
Omicron Delta Kappa (OΔK) Leadership Honor Society – Member   Inducted 2016
CCBC Phi Theta Kappa Honor Society (PTK) – Member   Inducted 2013