

Andrew J. McCormick

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EXECUTIVE SUMMARY

- Information technology specialist with two years of experience in the software development lifecycle.
- Proficient in Java and Java libraries
- Developed multiple full-stack websites using HTML, CSS, JavaScript, PHP and SQL
- Detail-oriented, fast learner with excellent communication and interpersonal skills honed as an educator
- Problem solver with a flexible, customer focused and motivating attitude and a zeal to learn new technologies

TECHNICAL SUMMARY

Programming/Application Development

- Java, C#, Python, JavaScript, HTML, CSS, PHP, SQL Script, Bash-Scripting, XML, JSON, C, C++
- Knowledge and use of Software Development Life Cycle Models including Agile methodologies
- Eclipse, Microsoft Visual Studios, JetBrains: IntelliJ, PyCharm, CLion
- Version Control: Git

Quality Assurance Automation Testing

- **Selenium WebDriver:** Created Java program navigating webpages including using id, xpath, and cssSelectors. Used the action class to navigate drop-down menus, perform mouse right-click, and keyboard actions. Used TestNG framework to do unit testing. Run cross-browser scripts on Chrome, Firefox, and Edge

Virtualization/Cloud Services

- **Azure:** Created Virtual Machines, deployed a web app with a container, created a load-balancer to distribute internet traffic to multiple virtual machines, created virtual machine scale set
- **Amazon Web Services:** Created a full-stack website using AWS Lightsail. Created personal static website using AWS S3 buckets and AWS S3 domain routing, completed Cloud Computing 101 on AWS Educate
- **Oracle VirtualBox:** Created Metasploitable virtual machines and host-only networks to exploit vulnerable machines. Additionally, simulated using a buffer-overflow to overwrite memory with shell-script
- **Docker:** Created, set-up and mapped a container to a user on a virtual machine running Linux
- Intermediate knowledge of Cloud Architecture

Systems

- Linux (Ubuntu, Mint, Kali): Intermediate skill and knowledge level
- SQL Server, MySQL

Security

- Cybersecurity Framework, ISO/IEC 27000 Family, NIST Special Publications (800-53, 800-37), identity and access management principles, data security foundations
- Common Vulnerabilities Scoring System (CVSS) and Common Vulnerability Enumeration (CVE)
- Used Microsoft Threat Modeling tool to identify and mitigate threats to a user-created application

PROFESSIONAL SUMMARY

The Coder School - Town & Country, MO

July 2018 – Present

Code Coach

Responsibilities

Responsible for teaching and mentoring junior developers

- Developing a full-stack website with HTML5, CSS (including CSS-gridbox), and JavaScript for the front-end and PHP and SQL database for the backend with junior web-developer for the Manchester, Missouri Veterans Memorial.
- Currently developing an HTML, JavaScript texting app with a junior web-developer that uses the OpenWeatherMap API with JSON to provide rain probability forecasts and the Twilio API with PHP and SQL database to text a user if they need to water their plants or not hosted on Microsoft Azure
- Developing a Java game with a junior software-developer using the GUI widget toolkit, Swing
- Created multiple Object-Oriented Python GUIs and Games using the Pygame Python library
- Perform daily coding in Java, JavaScript, and Python with junior developers
- Introduce and lead junior developers through learning coding languages/programs: SCRATCH, PYTHON, JAVASCRIPT, HTML 5, and CSS
- Guide and research junior developer-generated project ideas such as using the Discord API for bots
- Collect customer feedback to plan lessons and accommodate junior developers technical career' interests
- Acquire materials for small junior developer groups and one-on-one technology coaching sessions
- Perform daily analysis of junior developer's prior accomplishments, discuss and review previous lesson topics and progress.
- Utilize paired programming with feedback for advanced junior developers in code reviews
- Integrated user stories to layout the needs of a project based on collected data
- Aid with onboarding new code coaches to the organization

Master's Program Projects

January 2018 – May 2020

University of Missouri St. Louis

- Created front-end HTML, CSS, JS website with form checking, back end PHP form checking and storing information in SQL server, Used Apache XAMPP to localhost the website
- Created multiple object-oriented Java apps using the Eclipse IDE with multiple classes using inherited functions
- Created a Java project that used a self-created (non-computationally secure) encryption and decryption scheme for text and binary files
- Python app to encrypt, decrypt, and hash messages in AES-256 and SHA-256
- Created multiple C programs through the Linux Terminal and Bash that were multi-processed, multi-thread using parent and child processes to manage memory
- Worked as part of a team to develop a front-end website that contains a code editor made using the CodeMirror API for an assembly language interpreter that will be used in the Computer Architecture and Organization classes at UMSL

Ross Elementary School (Parkway School District)

August 2016 – July 2017

Classroom Teacher – 1st Grade

- Implemented 2 to 1 student Chromebook technology to support learning objectives
- Utilized newsletters, social media, and conferences to communicate with parents
- Performed data analytics on student learning via assessments and state criteria

Keysor Elementary School (Kirkwood School District)

August 2015 – July 2016

Classroom Teacher – 1st Grade

- Initiated projects that focused on STEM, including bi-weekly use of Maker Space
- Implemented 1 to 1 student iPad technology to enhance student learning
- Managed and led the classroom environment, lessons, and students

Keysor Elementary School (Kirkwood School District)

August 2014 – June 2015

Teacher Assistant

Spoele Elementary School (Ladue School District)

August 2013 – June 2014

Teacher Assistant

Kirkwood School District and Lindbergh School District

January 2013 – May 2013

Substitute Teaching

VOLUNTEERING

Recreational Coordinator – Kids Night – Concordia Lutheran Church

2017-2018

Ice Hockey Coach, Kirkwood Youth Hockey Association

2008-2009

EDUCATION

Master of Science, Computer Science

Spring 2020

University of Missouri - St. Louis, St. Louis, MO

Selected Coursework: Advanced Cybersecurity Concepts, Cloud Computing, Cryptography for Computer Security, Computer Networks & Comm, Principals of Information Security, Software Assurance

Overall GPA: 3.60

Graduate Certificate in Cybersecurity

Spring 2020

University of Missouri-St. Louis, St. Louis, MO

Bachelor of Arts, Education

December 2012

Certifications: Elementary (1-6), Mathematics 5-9, Science 5-9

Saint Louis University, St. Louis, MO