Jacob M. **Shodd**

PROGRAMMER · SECURITY ENTHUSIAST

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Education

Westminster College	*New Wilmington, PA*
BACHELORS OF SCIENCE IN COMPUTER INFORMATION SYSTEMS	*Aug. 2013 - May 2017*

Experience

IT Technician - Quality Assurance — *Sharon, PA*
BLACK KNIGHT FINANCIAL SERVICES — *March 2017 - Current*
- Utilized the Microsoft Test Management suite to perform manual software testing
- Wrote detailed bug reports describing the error and the steps needed to recreate it
- Reviewed changes in C# code when performing tests to identify possible causes for error

IT Intern — *New Castle, PA*
TRELOAR AND HEISEL — *Aug. 2016 - March 2017*
- Performed a security assessment and discovered three critical operational vulnerabilities
- Reduced time required to run monthly financial reports by 97% using Visual Basic in Excel
- Wrote Python scripts to automate multiple administrative and tedious tasks

IT Intern — *Pittsburgh, PA*
THALES TRANSPORT AND SECURITY INC. — *May 2016 - Aug. 2016*
- Wrote a Powershell script to automate common Active Directory tasks
- Designed a diagram of the server room including all connection paths in Visio
- Handled all incoming help request tickets for an office of 90 employees

Penetration Tester — *Westminster College*
SENIOR CAPSTONE PROJECT — *Aug. 2016 - Current*
- Used tools like Metasploit, Nmap, Hashcat, BURP suite, Ettercap
- Tested systems such as NFS, VNC, Kerberos, Apache, RPC, LDAP
- Searched for vulnerabilities specific to the college Unix Lab

Projects

Python	Created program to log guests by swiping ID cards, running on touchscreen raspberry pi kiosk
GoLang	Wrote both client and server applications for a concurrent and encrypted TCP/IP chat application
C++	Programmed a robot to navigate a maze using optical sensors and put out a candle
SQLite	Created a simple user interface for a SQLite database using Golang and G-ORM
Home Lab	Configured a virtual network using a pfsense router and multiple linux distributions as hosts
Clojure and SmallTalk	Developed server-side web applications in both languages to generate HTML and styling

Skills

Python • Bash • Linux • GoLang • SQL • Git • C++ • Java • TCP/IP

Extracurricular Activity

Enactus — *Westminster College*
WEB DESIGNER — *Jan. 2017 - Current*
- Designed an online forum to connect local businesses with talented individuals looking for work

Westminster Tiny House Project — *Westminster College*
TECHNOLOGY AND NETWORKING TEAM LEAD — *Aug. 2016 - Current*
- Lead a team integrating technology like routers, access points, and key-card access

Social Fraternity — *Westminster College*
VICE PRESIDENT OF MEMBERSHIP DEVELOPMENT — *Nov. 2015 - Nov. 2016*
- Created a membership development program to teach members professional skills and prepare them for life after college