

Derrick Wilson-Duncan

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Work Experience

BrookeSource Contractor - DevOps Engineer VideoIP

BrookeSource; <https://www.brooksource.com>, <http://www.builtincolorado.com/company/comcast-viper>, Oct 2017

- Application support, UNIX and Web middleware development, automation development with Python/Go, and QA.
- Monitor system health across environments (CentOS 6, Docker, Kubernetes, Apache2, and NGINX) using Bash, OP5, Nagios, Splunk, SiteScope and assisting NOC in diagnosing root cause.

Lockheed Martin MST Software Engineer

Lockheed Martin MST; <http://www.lockheedmartin.com/us/products/aegis.html>, April 2015 – August 2016

- Supported AEGIS BMD5.1 BL9 software products, finding bugs and writing software patches, implementing new development features from design documents and Spec; following an MVC design pattern.
- Agile/Scrum, Sprint/Releasing planning; estimating story points and logging metrics in JIRA, collaborated with Systems engineers and outside teams ensuring proper implementation of features for new releases.
- Created test builds for CSEDS lab in Linux RTOS environment with Jenkins, Ant, Bash, ClearCase, and ClearTool.
- Supported code reviews, refactoring code, and creating UML diagrams to aid reduction of technical debt.
- Frontend Development with Java 6 SE and Java 7 SE utilizing Swing, AWT, and embedded XHTML, implementing new widgets, windows, layouts, controllers, and event listeners.
- Backend development with Java EE, JDBC, JMS, C++, DataShark (data mining), MySQL, and RTI Connex DDS.
- Unit Testing with Junit, Mockito, and PowerMock.

Lockheed Martin MST Systems Engineer

Lockheed Martin MST; <http://www.lockheedmartin.com/us/products/aegis.html>, Jan 2015 – April 2015

- Supported observations of system design and requirements definition, integration testing, data analysis, and problem resolution for AEGIS Software products.
- Development in Python, leveraged SikuliX library to develop a test automation framework/engine, supporting automating smoke and regression testing to help with BDD compliance as per the transition to Agile.

Neat co. QA Automation Engineer Fellowship

Neat Company; <http://www.neat.com/>, Summer 2014

- Developed Ruby Scripts, CLI tools, and testing Suite for the Neat Cloud Ruby on Rails application.
- Supported CI/CD, writing scripts for tools that automated environment setup, test execution, and deployment.
- Developed new test suites, testing Rest API endpoints, MongoDB CRUD operations, and AWS S3 Buckets.
- Unit Testing with RSpec and Cucumber.
- Agile/Kanban, attended daily stand-ups, supported and held code reviews, logged metrics in JIRA.

Fox School of Business Student Mobile Web Developer

Fox Information & Technology Suite; <https://www.fox.temple.edu/>, Jan 2014 – April 2014, August 2014 - Jan 2015

- Developed on fox.temple.edu, sthm.temple.edu, and Fox School Mobile and Temple STHM mobile apps.
- Frontend development with HTML5, JavaScript, JQuery, and CSS3.
- Backend development with PHP, Android, and PhoneGap, supported bug fixes and WP Plugins and Shortcodes.
- Used JavaScript and jQuery to extend HTML5 functionality and appearance to legacy browsers (IE6+).
- Created digital media and content for devices using Illustrator, Photoshop and HTML5 responsive design.

Education

Temple University Philadelphia, PA; BS in *Computer & Information Sciences*, **May 2014**

Skills

Programming: Java [4+yrs], JavaScript [4+yrs], Python 3 [3yrs], C [3yrs], C++ [3yrs], C# [2yrs], NodeJS [2yrs], Go [2yrs], Ruby [1yr], Rust, TypeScript, Fortran 2003, Elixir, Kotlin, Amtel AVR Assembly, 86-64x Assembly.

Databases & DBMS: MySQL, CouchDB, MongoDB, Postgres, CockroachDB, Oracle SQL Developer, PL/SQL, SQLite.

Tools/Frameworks: Ansible, HTML5, SASS, JDK(7,8), Bootstrap, MDL, Google App Engine, Microsoft Azure, AWS, AWS Lambda, Git, ThreeJS, ReactJS, VueJS, Express, webpack, Wordpress, RoR, JSP, JBoss, Jetty, Thymeleaf, SikuliX, Gradle, Jenkins, Docker, IPVS, HA Proxy, Bash, Vim, QEMU, Jupyter, TensorFlow, VSCode, Eclipse, GNU GSL, NASM.

* Skills listed have a good to proficient level of mastery, with at least 6+ months of use via personal study, projects (see github), or work experience

Projects

HeartBeep, Alexa Hackathon #AlexaPHL 2016 Hackathon

Live: <https://github.com/coderrick/alexahack/blob/master/README.md>, GitHub: <https://github.com/coderrick/alexahack>

- Developed an Amazon Alexa Skill using the NodeJS Alexa SDK and AWS Lambda. The Alexa Skill used someone's systolic and diastolic blood pressure to determine if 911 should be called with Twilio, winning first place.

HPCritical, PennApps Winter 2015 Hackathon

Live: <https://devpost.com/software/hpcritical>, GitHub: <https://github.com/coderrick/PennApps2015>

- Inspired by Google Map's 2014 April fool's joke, my team and I created a similar web application using JavaScript and the Google maps API.

PowerShale, Hack the Planet 2015 Hackathon

Live: <https://devpost.com/software/powershale>, GitHub: <https://github.com/coderrick/PowerShale>

- Created Pebble Watch App with the Pebble C SDK to communicate with a Windows PowerShell session via HTTP with a Windows Server instance to simulate a running PowerShell session on the watch.