

http://wilcollins.com wil.collins@gmail.com | (628) 333-9452

EDUCATION

VIRGINIA TECH BS in Computer Science Minor in Mathematics

May 2014 | Blacksburg, VA

Focus in Human Computer Interaction College of Engineering

LINKS

Github:// wilcollins LinkedIn:// wilcollinsVT StackOverflow:// wilco

COURSEWORK

Creative Computing Computer Systems Cryptography Database Management Systems Human Computer Interaction (Research Asst.) Mobile Development for Android Multimedia, Hypertext, & Information Access Theory of Data & Algorithm Analysis

VOLUNTEER

VT BUS TRACKER

UX Design & Development

September 2011 - December 2011

- Redesign UX
- RESTful API development

SKILLS

Proficient:

Java • JavaScript • Node.is • Docker SQL • NoSQL • Bash • Git • Jenkins AWS • Terraform • Packer • Ansible

Experienced:

2016

Python • Ruby • Swift • Android • PHP C • C++ • Django • ML • ETL • LATEX TCP/IP • DNS • SMTP • MQTT VMware • Mongo • Redis • GCP

AWARDS & RECOGNITION

2012 VTKW Entrepreneur Challenge Finalist 2015 IBM Manager's Choice Q3 IBM Manager's Choice Q1 2016

IBM Manager's Choice Q3 IBM Watson IoT Contest Finalist 2016

EXPERIENCE

AGARI DATA, INC. | Quality Automation Engineer

November 2016 - May 2017 | San Mateo, CA

- Build Docker network for local replica of near real-time email pipeline hosted on AWS
- Build end-to-end Java test harness utilizing the local Docker pipeline for black-box testing
- Build fully codified Jenkins system on AWS using Ansible & Terraform
- Created more than 50% cost savings for Jenkins using AWS Spot Instances for slaves
- Develop performance metrics and dashboard to help meet pipeline SLA

IBM | Staff Software Engineer

June 2016 - November 2016 | San Francisco, CA

- Lead continuous integration of mobile project
- Develop multi-threaded automation framework for stable & reliable GUI testing
- Manage customer delivery of framework & support customer installations of application
- Develop bulk data loading apps to reduce load times by more than 50%
- · Build a robot interfacing with the IBM Watson IoT API
 - Natural language classifier, voice-to-text, & text-to-voice
 - Node.is command-and-control server with iOS Swift client app

IBM | Software Engineer

June 2014 - May 2016 | San Francisco, CA

- Lead design & development of Appium-based mobile automation framework
- Design & implement application layer of web framework
 - Improve time-to-value by reducing development by more than 50%
- Improve automated data import process by 10x speed
- Design & implement implicit wait algorithm for 10x speed improvement
- · Automate multiple manual workflow processes to drive team agility
- · Create & manage application environments, including:
 - Linux(RHEL) & Windows servers
 - WebSphere & Tomcat app servers
 - MS SQL, Oracle, DB2, & MySQL databases

IBM | Software Engineer Intern

June 2013 - December 2013 | San Ramon, CA

- Develop Selenium-based automation framework for QA regression testing
- · Develop automated test suite totaling more than 200 test cases
- Build automation lab of virtual machines for remote automated testing

VT SOFTWARE TECHNOLOGIES LAB | Developer

September 2012 - May 2013 | Blacksburg, VA

- Implement customized web applications
- Upgrade and maintain existing database systems
- · Redesign existing user interfaces to increase product usability

THE CARTEL | Mobile & Web Developer

May 2012 - May 2013 | Los Angeles, CA

- · Design and develop mobile applications for iOS and Android
- Design and develop websites for clients

HANDSHAKE MEDIA | Mobile & Web Developer

October 2011 - May 2012 | Blacksburg, VA

- Develop mobile applications for iOS and Android
- Develop a web application using the Django Python framework
- Finalist in the VT KnowledgeWorks Entrepreneurship Challenge

RESEARCH

VIRGINIA TECH | Undergraduate Research

January 2011 - May 2012 | Blacksburg, VA

- · Develop a distributed game with different versions to understand the effect of visible information & information security on user interactions
- · Assist with data collection and management during experimental sessions