

David Worley

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EDUCATION

Purdue University, West Lafayette, IN
Bachelor of Science in Computer Science
GPA: 3.1 / 4.0

May 2018

SKILLS

Languages: Python, Java, JavaScript, C, C++, Bash, React-Native, HTML/CSS, Solidity
Frameworks / Tools: Git, RESTful API, GitHub, Linux, Twilio API, Clarifai, Flask, FireBase, mongoDB, Amazon AWS, socket.io, virtualenv, containers, Bluemix, nodeJS, Express, dynamoDB

PROFESSIONAL EXPERIENCE

- Textron Systems**, Cyber Security Engineer 06/2017 — 08/2017
- Deploy software updates and vulnerability patches for unmanned aircraft military assets
 - Learn how to implement efficient and scalable software updates using source control
 - Improve communication skills and knowledge of industry code standards with a team
- Purdue University**, Undergraduate Teaching Assistant 05/2016 — 05/2017
- Instruct and mentor students in OOP courses, Java and Python
 - Create course content and use student feedback to continuously improve course
- CodeHS**, Programming Tutor, Course Grader 09/2015 — 12/2016
- Mentor high-school students enrolled in online programming courses
 - Collaborate with developer teams to create new course content for students
- Twin Lakes Telephone Co-op**, Network Engineer Intern 05/2014 — 08/2014
- Automate tedious transition to new customer database using Bash and Excel
 - Learn how to write formal documentation for asset remediation and raw data analysis

RELEVANT EXPERIENCE / PROJECTS

Cloud Infrastructure Manager

- Highly available and dynamic, fault tolerant cloud infrastructure model that handles hosts in groups, load balancing access, host dependencies, and saving stored clusters to a JSON database

REST API Applications

- Build SMS-to-VOIP service using Twilio, Flask, Amazon AWS, and virtualenv container
- Create web scrapers deployed in the cloud using Twitter, Reddit, and Imgur API's for posting trending content (hourly or daily)
- Create Facebook API Messenger bot to perform statistical analysis on Spotify listening habits and generate custom playlists and song suggestions
- Gain experience with neural networks and image recognition by using Clarifai API to identify objects in pictures

Cryptocurrency Card Trading and Battling Game, Purdue University (Group Project)

- Develop web application and marketplace running on the Ethereum Blockchain using Solidity, Docker, Composer, React, Bootstrap, Laravel, and SQLite
- Learn about scalability and how to work with a team to ensure all components connect together

Operating Systems, Purdue University

- Learn Operating Systems concepts using XINU and low-level programming to build dynamic process scheduler, stack smashing, deadlock detection, message send and receive blocking, etc.

IRC Web Server, Purdue University (Group Project)

- Develop a chat server deployed on Bluemix using MongoDB, NodeJS, Express, and Bootstrap