

# Karl Brown

<http://thekarlbrown.com> | 829 Whann Ave McLean, VA

[karl@thekarlbrown.com](mailto:karl@thekarlbrown.com) | 703.909.7774

<><><><>

Full Stack Software Engineer with over 2 years of experience  
seeking a Software Engineering position involving Java and/or Python.

## SKILLS

### PROGRAMMING

Core Skillset:

Java • Python • C# • HTML • Git

Proficient At:

JS • CSS • SQL Server • Linux • PHP •

Angular2

Familiar With:

JQuery • Android

## LINKS

LinkedIn [linkedin.com/in/thekarlbrown](https://www.linkedin.com/in/thekarlbrown)

Github [github.com/thekarlbrown](https://github.com/thekarlbrown)

## EDUCATION

### CHRISTOPHER NEWPORT UNIVERSITY

BS IN COMPUTER SCIENCE

Minor in Philosophy/Religious Studies

August 2015 | Newport News, VA

GPA: 3.45

### LANGLEY HIGH SCHOOL

AP COMPUTER SCIENCE/STATISTICS

May 2010 | McLean, VA

## COURSEWORK

### GENERAL ASSEMBLY

Data Science

### UNDERGRADUATE

Algorithms

C++ Programming

Cryptography and Network Security

Android Mobile Computing

Operating Systems II

Linear Algebra

### AWARDS

2015

1st - Undergrad Capstone Software Faire

## PROJECTS

### GREED ALGORITHM | JAVA

August 2017 | McLean, VA

- Analyzed Greed dice game and developed Java Algorithm aimed at gleaning strategic insight into tactics
- Isolated key point values where specific good decisions could become bad decisions
- Simulated hundreds of millions of rounds of game repeatedly and tweaked key point values accordingly based on average score per round
- Explored future utilization of Algorithm aimed at obtaining the perfect key point values involving AWS and Multithreading

### ALEXA SKILLS | PYTHON, AWS LAMBDA

July 2017 - Present | McLean, VA

- Developed multiple Alexa Skills using Python and AWS Lambda functions
- Powered Alexa Skills via WMATA Metro, Yelp, and Google Calendar API's
- Expanded Alexa skillset via Alexa Dev Days conference in DC and personal research
- Applied acquired knowledge to improve User Experience and solve Speech to Text challenges

## EXPERIENCE

### DDC PUBLIC AFFAIRS | SOFTWARE ENGINEER

August 2015 - Present | Washington, DC

- Developed C# API services and applications using .Net Framework, Entity Framework, Stored Procedures, ASP.NET, Nuget Package Manager and Jenkins
- Trained intern in Unit Testing C# API Services using Xunit and Moq
- Expanded Wordpress PHP codebase including an implementation of SAML SSO
- Learned about Software Development lifecycle in the Agile methodology
- Hardened products based on security scans to protect against XSS, CSRF, and other vulnerabilities
- Created Salesforce Integration using Fuel SDK for Boeing and with coworkers implemented Load Balancing and Multithreading
- Coded aspects of Angular2 Frontend for numerous DDC products

### CONTRACT COMPUTER SCIENCE WORK

July 2008 - January 2015 | McLean, VA

- Deployed operating systems, and security software and hardware to harden patient privacy for a medical professional
- Utilized my knowledge of Desktop Assembly and communications skills to build desktops that met the budget and technical specifications of customers
- Employed my understanding of individual's needs, required time frames, and computer science to ensure a satisfactory customer experience
- Negotiated contracts transacted via written agreement