

Karl Brown

<http://thekarlbrown.com> | 829 Whann Ave McLean, VA
karl@thekarlbrown.com | 703.909.7774

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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/thekbrown](https://www.linkedin.com/in/thekbrown)

Github 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 gleanng 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

- 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
- 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