BARRETT D. OTTE

White Hall, Maryland

barrettotte@gmail.com xxx-xxx https://github.com/barrettotte

SKILLS

Main: C#, Java, Python, ColdFusion, C/C++, JavaScript, HTML/CSS, TypeScript, Node.js, Angular

Exposure: Batch Script, PowerShell, Groovy, Shell, Ruby, XSLT, Assembly x86, RPGLE, CL Programming

Database: MSSQL/T-SQL, IBM DB2, MongoDB, PostgreSQL, Redis

Tools: Git, SVN, Gradle, Ant, Maven, Docker, GitLab CI/CD, Jenkins CI, Jira, Confluence, Nexus, Vim, LaTeX

PROJECTS

Terrain Generation Self Study - Using perlin noise to generate terrain.

[C#, Unity Engine]

- Located at https://github.com/barrettotte/Terrain-Generation-Study
- Terrain chunk and procedural octahedral sphere generation using threading and delegates.
- LOD enabled terrain chunk scrolling using circular buffer data structure and queue.

SQL Unit POC - A POC MSSQL unit testing framework with Python and T-SQL

[Python, MSSQL]

- Located at https://github.com/barrettotte/SQL-UNIT-POC
- Directory/file driven unit tests using T-SQL and JSON to compare expected vs actual
- \bullet Leverages transactions and dynamic SQL to safely run SQL tests

Subarashii-CPU - Homebrew 8-bit RISC CPU in VHDL and breadboards

[VHDL, Assembly]

- Located at https://github.com/barrettotte/Subarashii-CPU
- Designed and implemented 8-bit RISC instruction set
- Harvard architecture, 8x8-bit registers, 256x8-bit RAM and ROM via EEPROM

Population Genetics Simulation - Simulate mocked DNA in organisms across n generations.

[Java, Spring Boot, Angular, MSSQL]

Anime Manager - Authenticate users and manage media lists. [Java, Spring Assembly(x86) HTTP Server - Use system calls and sockets to serve a web page.

[NASM Assembly]

A STAR DATE A STAR OF A DECEMBER 1

[TVIBIVI TESSETIOIY]

Anilist Ruby - API Wrapper over Anilist's GraphQL API using metaprogramming

[Ruby, GraphQL]

[Python]

EDUCATION

University of Maryland University College Graduate 2018: Computer Science B.S. Cyber Security Minor Data Structures and Algorithms, Network Security, Software Engineering, Ethical Hacking, Concurrent Programming, Algorithm Analysis/Design, Computer Architecture, Database Admin.

Towson University 2015-2016: Mathematics and Computer Science B.S. Cyber Security Minor Calculus-based Statistics, Linear Algebra, Graph Theory, Abstract Algebra, and general coursework

Harford Community College Graduate 2015: Computer Science A.S.

Vector and Integral Calculus, Networking, Assembly (x86), Discrete Mathematics, C/C++, Java

North Harford High School Graduate 2014: Computer Science/Computer Information Systems Track Maryland Scholar, Computer Science, Physics, C++ Programming, Marketing, Java Programming

WORK HISTORY

Goodville Mutual Casualty Company

Software Developer

New Holland, PA

June 2018 - Current

- Mainly worked with Java, ColdFusion/Lucee, JavaScript, Angular, MSSQL, XSLT, SASS, Spring Boot, Drools, PowerShell, Groovy, and Jenkins CI.
- Exposure to JBPM, Gradle, Maven, Ant, IBM DB2, RPGLE, CL Programming, and IBMi system.
- Practiced Agile development with scrum and the Atlassian suite (Jira, Confluence, Bitbucket, FishEye).
- Modernized legacy ColdFusion and Java code to work towards microservices using Spring Boot and Angular.
- Worked with proof of concept team to automate existing Commercial Umbrella line of business.