

BARRETT D. OTTE

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barrettotte.github.io

SKILLS

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

Exposure: Groovy, Haskell, Shell, Ruby on Rails, PHP, Assembly x86, BASIC, FORTRAN, RPGLE

Database: MSSQL, MySQL, MongoDB, PostgreSQL, Cassandra

Tools: Git, SVN, Bash, Gradle, Ant, Maven, Docker, GitLab CI/CD, Jenkins CI, JIRA, Vim, LaTeX

PROJECTS

MyMovieList - Movie Tracking Web App; Capstone Group Project. [Node.js, MySQL, HTML/CSS]

- Located at <https://github.com/barrettotte/WebApp-MyMovieList>
- CRUD (Create, Read, Update, Delete) functionality and sanitization for MySQL database.
- Session Handling/Authentication, Heroku Cloud Deployment, Express, EJS, Promises, Helmet.

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.

Seaport Simulation Project - Object oriented and concurrent programming semester project. [Java]

- Located at <https://github.com/barrettotte/Seaport-Project>
- Parse data using internal structure to create ships, people, and ports. Sorted with HashMaps.
- Ships compete for open jobs depending on available resources and simulated using threading.

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

Assembly(x86) HTTP Server - Use system calls and sockets to serve a web page. [Assembly, NASM]

MEAN To Do List - Simple to do list using the MEAN Stack. [MongoDB, ExpressJS, Angular6, Node.js]

Fortran77-Enigma Machine - WWII enigma machine emulator for simple enigma encryption [FORTRAN]

8-Bit Breadboard Computer - Architecture Self Study – ALU, registers, memory, program counter, microcode

40+ repositories and always growing, located at <https://github.com/barrettotte>

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**
Statistics (calculus-based), 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

- Exposure to ColdFusion, Java, Angular, MSSQL, XSLT, Groovy, Spring Boot, RPGLE, Gradle, Maven, Ant, Jenkins CI, Agile Development, and JIRA.
- Maintain/upgrade legacy ColdFusion and Java code to work towards modernization with microservices using Spring Boot, Angular, and Lucee.
- Worked with proof of concept team to automate existing Commercial Umbrella line of business.