

DEREK ROOT

Portfolio: <https://dkwroot.github.io/portfolio/>

EDUCATION

Bachelor of Science in Mathematics, Indiana University, 2018

- Relevant courses: Mathematical Computing, Computational Methods, Computational Models

TECHNICAL SKILLS

Programming Languages: C++, Python, C#, JavaScript, Lua

Full-Stack (JS): MongoDB, Express.js, React.js, Node.js, Bootstrap, Redux, SASS, socket.io

Python Libraries: Tensorflow, Sci-kit Learn, Beautiful Soup, Pandas

General Computer Science: Data Structures, Algorithms, OOP

Miscellaneous: GitHub, Docker, Linux

PROFESSIONAL EXPERIENCE

Freelance, Houston, TX 2013-Present

Software Engineer

- *Developed fullstack(MERN) and Desktop applications for various clients as a freelance agent.*
- *Created web pages and node.js servers for private and corporate clients.*
- *Extended existing programs via scripting which often connected to restful servers.*
- *Technologies used:* Javascript, Python, C++, Lua, various libraries

Oasys, Houston, TX 11/2018-02/2019

Software Engineer Intern

- Developed machine learning tools utilized by the oil and gas industry.
- *Technologies used:* Python, C++, Linux, Github, Docker, Tensorflow

University of Nebraska Medical Center, Omaha, NE 05/2013-08/2013

Data Science Intern

- Performed data analysis of patient data regarding the effectiveness of new medical techniques.
- Assisted physicians in the analysis of large amounts of patient data.
- *Technologies used:* Python, Pandas