

Spencer Hanson

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EDUCATION

University of Michigan

BS Computer Science

Minor in Physics

- Relevant Coursework: Data Structures & Algorithms, Computer Security & Organization, Machine Learning, Web Systems (Winter 2020)

Ann Arbor, MI

Sept 2017 – April 2021

GPA: 3.68/4.00

EXPERIENCE

Northrop Grumman

Software Quality Engineering Intern

- Created a Windows Forms app that streamlines formal qualification testing and anomaly tracking by interfacing with a configured JIRA project
- Analyzed 13 years of sector-wide corrective action records to identify usage trends and data inconsistencies

Rolling Meadows, IL

May – Aug 2019

Michigan Research and Discovery Scholars

Peer Advisor

- Managed 9 first-year students as they pursued introductory research positions by evaluating individual project progression
- Engaged students with upperclassmen and professors on interdisciplinary topics by facilitating monthly seminars

Ann Arbor, MI

Sept 2018 – April 2019

Crowds + Machines Lab

Research Assistant

- Investigated the impact switching context, when responding to emails, has on time productivity in the workplace
- Presented results at the National Conference on Undergraduate Research (NCUR) in Edmond, Oklahoma

Ann Arbor, MI

Oct 2017 – April 2018

PROJECTS

SpencerHanson.net

Website (HTML, CSS, JavaScript)

- Developed from scratch to showcase my experiences and boost my professional image by leveraging the Bootstrap framework and jQuery library

Sydney, Australia

Oct – Nov 2019

The Buzzwords

Search Engine (C++)

- Built a complete multithreaded web search engine in a team of 6 students using a library of self-implemented containers and algorithms
- Reduced query-serve time to 30 seconds for a 227 GB index by ranking documents using a combination of static attributes and dynamic heuristics

Ann Arbor, MI

Jan – April 2019

SKILLS

Languages

- Proficient: C/C++, Python, Java
- Familiar: HTML, CSS, JavaScript, C#, SQL, ARM Assembly
- Foreign: German (Intermediate)

Technologies

- Development: Visual Studio, Android Studio
- Tools: Atom, Git, Vim, GDB, Valgrind, Perf
- Software: Microsoft Office, SharePoint, JIRA
- Adobe Creative Cloud, VirtualBox, VPython