

Spencer Hanson

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EDUCATION

University of Michigan

BS Computer Science

Ann Arbor, MI

September 2017 – April 2021

- GPA: 3.68 / 4.00
- Awards: University Honors, William J. Branstrom Freshman Prize (Top 5% of Class)
- Relevant Coursework: Data Structures & Algorithms, System Design of a Search Engine, Discrete Mathematics
Introduction to Computer Security & Organization, Honors Physics: Mechanics

University of New South Wales

Study Abroad

Sydney, Australia

August 2019 – December 2019

- Travelling along the east coast, immersing myself in campus life, and gaining new perspective on the world
- Collaborated with international students to design and pitch a blueprint for change in the Flint public schools
- Relevant Coursework: Physics: Electricity & Magnetism, Linear Algebra, Microeconomics

EXPERIENCE

Northrop Grumman Corporation

Quality Engineering Intern

Rolling Meadows, IL

May – August 2019

- Constructed JIRA workflows to interface with a Windows Forms application that guides formal testing events
- Led the development of audit checklists and a realistic process evaluation plan based on program status
- Restructured the SharePoint page, coordinated archive consolidation, and integrated functionality into JIRA
- Analyzed 13 years of sector-wide corrective action records to report usage trends and data inconsistencies

University of Michigan Research and Discovery Scholars (MRADS)

Peer Advisor

Ann Arbor, MI

September 2018 – April 2019

- Managed 9 first-year students as they pursued introductory research positions and adjusted to university life
- Facilitated seminars that engaged students with upperclassmen and professors on interdisciplinary topics
- Monitored research hours and project progression as students prepared to present at the symposium
- Held a weekly study group to provide students with coding project assistance and technical interview advice

Clearbrook

Community Support Coach

Crystal Lake, IL

June 2017 – August 2018

- Worked at the McHenry County CHOICE Program aimed at “Creating Opportunities for People with Disabilities”
- Responsible for all aspects of the clients’ care: eating, community integration, and safety
- Communicated with guardians, home-based staff, and manager about clients’ well-being and goal progress

University of Michigan Crowds and Machines (CROMA) Lab

Undergraduate Research Assistant

Ann Arbor, MI

October 2017 – April 2018

- Analyzed the impact switching context, when responding to emails, has on time productivity in the workplace
- Led a qualitative study to better understand what context is important in email-based interactions
- Presented research at the National Conference for Undergraduate Research in Edmond, Oklahoma

PROJECTS

The Buzzwords

Search Engine (C++)

January – April 2019

- Worked on a team of 6 students to design and build a complete multi-threaded internet search engine
- Crawled over 15 million pages and achieved a query-serve time of 30 seconds for non-cached searches
- Significant contributions include the Fowler-Noll-Vo Hash Table and the Ranker (Static & Dynamic)

Budget Tracker

Android Application (Java)

December 2018

- Allows users to manage transactions, associate by category, and view entries alphabetically or chronologically
- Displays transaction time and category totals. Prohibits invalid input and supports Up navigation

SKILLS

Programming: C/C++, Python, Java, C#, SQL, HTML, CSS, JavaScript, ARM Assembly

Development: Visual Studio, IntelliJ, Android Studio, VPython, Atom, Git, Vim, GDB

Languages: English (Fluent), German (Working Proficiency)

Other: Microsoft Office, Adobe Creative Cloud, Arduino, VirtualBox, Wireshark, JIRA