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Dennis Taylor Snyder

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Education

University of Michigan   **Ann Arbor, MI**   **Aug 2019 – May 2023**

- B.S.E. in Computer Science Engineering with Minors in Mathematics and Music.
- Cumulative GPA: 3.5.
- Relevant Coursework: Data Structures and Algorithms (**EECS 281**); Computer Security (**EECS 388**); Intro to Machine Learning (**EECS 445**); Software Engineering (**EECS 481**); Web Systems (**EECS 485**); Computer Game Design and Development (**EECS 494**).

Technical Experience / Projects

Video Game Development
- Developed several video games in the Unity Game Engine, both individually and with other students. In a group of 4, completed a 6 week video game project called *To The Sea* and released it on itch.io.
- Portfolio: taylorsnyder.info

RetroAchievements Developer
- Designed and developed achievement sets for a community-driven project by digging through memory and creating unique challenges for older video games. Any issues were resolved through an in-site ticketing system.
- Account: retroachievements.org/user/Dennis1543

Search Engine Creation
- In a team of 3, created a scalable search engine in Python using PageRank/tf-idf calculations and parallel data processing with a MapReduce pipeline (Hadoop). Hosted the search engine as a REST API service, with a simple front-end UI to display search results. Completed for EECS 485 (Web Systems).

MITM Attack Simulation
- In an isolated environment, replicated a Man-in-the-Middle Attack on an HTTP server in Go by spoofing a DNS response, manipulating TCP packets, and stealing cookies. Completed for EECS 388 (Computer Security).

Employment

Game Developer   **Bluebird Studios**   **May 2022 – Present**

- Working closely with a team of 10 others to develop the mobile game ”Treat Team”. Managed a team of 3 to work on a specific feature over the span of 3 months. Developing in C# (Unity) with an emphasis on full-stack and audio engineering.
- Link: bluebirdstudios.net

Freelance Web Developer   **November 2019 – April 2020**

- Co-developed a website which allowed people to purchase, view, and annotate an online PDF version of a published book. Hosted on AWS, built using React, HTML, and CSS.
- Link: dlmebook.com

Languages and Technologies

Proficient:
- C/C++; Python.
- Visual Studio Code; Jira; Windows OS; Linux.

Intermediate:
- C# (Unity Game Engine); HTML/CSS; JavaScript; Go; PHP; MATLAB; R.
- SQL (SQLite); Git; Visual Studio; Docker; Wireshark.