Daniel Schenk

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EDUCATION

- **University of Michigan** *Ann Arbor, MI*

Bachelor of Science in Computer Science - GPA: 3.28 *July 2020 - Present*

Courses: *Data Structures and Algorithms, Computer Organization, Discrete Mathematics, Foundations of Computer Science, Statistics & Data Analysis*

RELEVANT EXPERIENCE

Shibumi *(shibumi.com)* *Royal Oak, MI*

- *Software Engineering Intern (Full-time)* *May 2021 - August 2021*
  - Worked full-time in person as a software engineering intern at Shibumi.
  - Completely **rewrote and optimized an entire microservice**, changed from **Java & Node.js** to **Node.js and typescript**. This was done to **increase speed of service and decrease memory usage**, also to make the code more readable. Tools used: nest.js, node.js, typescript, and redis.
  - Created a **full-stack application** to allow companies to set up SSO service using a simple UI, implemented from front to back-end. Tools used: React.js, CSS, Java, AWS, Redis, Typescript.
  - **Other Tools**: Jenkins, Kubernetes, Docker, SQL, jest.js and AWS.

Simulation Players *(simulationplayers.io)* *Remote*

- *Lead Software Developer (Contract)* *October 2021 - February 2022*
  - Working as the lead software developer, for the Instagram artist @Leollii, on his NFT collection. Created a website, a **minting dapp** website, an **Ethereum smart contract**, and a **randomized NFT generator** to generate thousands of NFT's from given image layers and raritys.
  - Next.js, Tailwind CSS, Opensea.io api, JavaScript, Solidity.

iD Tech (*idtech.com*) *C++ & Python Online Instructor (Part-time)* *Remote, June 2021 - August 2021*

PROJECTS

Piazza Post Classifier

- An application created with C++ that learns to classify 1000+ piazza posts with certain labels using machine learning through Bayes' Rule and binary search trees.

Image Processing: Seam Carving Algorithm

- A C++ application that utilizes the seam carving algorithm to intelligently resize images to desired height and width.

Office Hours Queue Website

- A small web server for an office hours queue, this C++ application utilized linked lists.

SKILLS

- **Languages:** C/C++, Python, JavaScript, MATLAB, RStudio, SQL, TypeScript, Java
- **Frameworks/Libraries:** React.js, Next.js, Node.js
- **Tools:** Git version control, Docker, Jenkins, AWS, Redis
- **Platforms:** Windows, Linux, MacOS

INVOLVEMENT

Michigan Neuroprosthetics (*umneuroprosthetics.org***)** *September 2021 - Present*

- Programming Arduino Pro Mini 328 to control a prosthetic arm through various methods/modes.