

Connor McGibbon

connor13@illinois.edu • (919) 909-0850 • connormcgibbon.com

EDUCATION

University of Illinois at Urbana-Champaign (UIUC) | Champaign, Illinois

Aug 2021 - May 2025

Computer Science and Mathematics, B.S. GPA: 3.54/4.00

Relevant Courses: Data Structures and Algorithms (C++), Object-Oriented Programming (Java), Applied Machine Learning (Python), Linear Algebra with Computational Applications (Python), Numerical Analysis (Python), Computer Systems (C), Discrete Structures, The Art of Web Programming (Javascript), Mathematical Statistics (R)

WORK EXPERIENCE

Software Developer Intern | LeanTaaS | Charlotte, NC

05/2023 - Present

- Led the refactoring and optimization of legacy code within the company's Python-based data pipeline, leveraging Amazon Web Services (AWS) for cloud-based data management, significantly enhancing application performance and contributing to a 32% reduction in patient wait times at major hospitals nationwide
- Actively contributed to a dynamic Agile Scrum development team, utilizing tools such as Jira for project management, Bitbucket for code collaboration, and Git for version control - effectively met sprint goals across 4 consecutive sprints, significantly advancing project milestones
- Worked extensively with SQL databases to improve data processing logic, ensuring efficient integration with restructured legacy code and enabling smoother, faster data flows within the broader application framework

Software Engineer Intern | Dance4Healing | Remote

04/2022 - 11/2022

- Engineered and tested AI driven web applications providing over 1,000 cancer patients with personalized dance routines to promote physical therapy, in collaboration with Stanford Healthcare
- Collected information content through a MongoDB database and used the data to develop algorithms that enhance user experience using HTML, CSS, JavaScript, and Node

PROJECTS

Portfolio Website

- Developed and deployed connormcgibbon.com, a full-stack personal portfolio website, on Google Cloud Platform (GCP); demonstrating proficiency in Python and Flask for backend development, and JavaScript, HTML, CSS, and Bootstrap for front-end design
- Integrated advanced features such as a jQuery-based contact form, leveraging SQLAlchemy for object-relational mapping, and managed a MySQL database hosted on GCP for scalable, remote storage and database management
- Implemented Spotify's RESTful web API to dynamically display current personal top 5 songs, showcasing ability to interact with and implement external APIs in web applications

HTTP Web Server

- Designed and implemented a fully-functional HTTP web server in C, capable of handling over 250 concurrent requests via sockets to ensure seamless interaction with popular web browsers like Chrome
- Efficiently managed incoming connections by parsing request headers and content, providing accurate responses based on HTTP protocols, and thus facilitating robust web application operation
- Demonstrated in-depth understanding of web protocols and low-level programming, showcasing skills in both network communication and system-level programming in a real-world project

TECHNICAL SKILLS

Programming Languages: Python, C++, C, JavaScript, HTML, CSS, Java, R, SQL

Technologies / Frameworks: Flask, SQLAlchemy, NumPy, Pandas, Bootstrap, Node.js, PyTorch, MongoDB, TensorFlow

Tools: Git, Jira, Bitbucket, Docker, AWS, GCP