JACK DAVIS

Greater Boston Area ◇ (413) 271-4254
Jack17davis@gmail.com ◇ linkedin.com/in/jack17davis/

EDUCATION

University of Massachusetts Boston — May 2021
Bachelor of Science in Computer Science, Minor in Mathematics — GPA: 3.7
Graduated Magna Cum Laude

Languages	Java, SQL, Python, JSP, Scheme, C
Software & Tools	Git, Docker, Apache Airflow, Vim, Linux, LaTeX, Unity
Course Work	Data Structures & Algorithms, Linear Algebra, Probability & Statistics, Compilers, Databases, Artificial Intelligence, Operating Systems

INTERNSHIPS

Web Development Intern — January 2020-May 2021
UMass Boston Computer Science Department

- Maintained both front-end and back-end of tutoring website that services the entire campus.
- Implemented code changes and bug fixes in **Java**, **JSP**, and **SQL**.
- Communicated directly with our customers to provide quality service.

Software Engineering Intern — June 2020-August 2020
MIT Information Systems & Technology Department

- Developed, tested, and implemented best practice logging standards for 100+ **Java** applications.
- Investigated the possibility of using **Python** and regular expressions for automated error reporting.
- Gained experience with REST APIs using **postman** and **curl**.

PROJECTS

PyGames, github.com/jack17davis/PyGames/ — June 2020-present
library of checkers-style games — *Personal Project*
- Designing a **Python** program to play variations of checkers using artificial intelligence.
- Inspired by an in-course project.

Data Pipeline for US Case Law, github.com/drsooch/CS410-Pipeline — February 2021-May 2021
ETL Data Pipeline — *Group Class Project*
- Extracted data from existing repositories using REST APIs.
- Automated workflow using **Airflow** and store JSON objects in **Mongo** backend.
- Communicated closely with our customer, Taxy.io, to insure compatibility with existing software.
- Designed for easy deployment, by containerizing applications with **docker-compose**.

WORK EXPERIENCE

Teaching Assistant — September 2019-December 2020
UMass Boston Computer Science Department

- Facilitated lab for Computer Architecture and Design course for 70 students by guiding them through circuit and software construction on Arduino Uno minicomputers.
- Adapted course material to work online, making use of hardware simulators.

IT Lab Consultant — January 2019-December 2019
UMass Boston IT Department

- Maintained lab equipment, assisted students and faculty with university software, and used creative solutions to identify and troubleshoot hardware issues.

ACTIVITIES AND AWARDS

- UMass Boston 2019 Emerging Leader Award — May 2019
- UMass Boston Track and Field Team — Fall 2017-January 2019
- Eagle Scout — June 2017