

Taylor Bushey

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EDUCATION

Bachelor of Science in Computer Science, University of Massachusetts Amherst

Associate Degree in Computer Science, Greenfield Community College

Coursework: Web Programming, Scalable Web Systems, Computer Networks, Operating Systems, Introduction to Algorithms, Programming Methodology, Computer Systems Principles, Data Structures, Digital Forensics

PROJECTS

Digital Forensics

- Implemented certain functionalities of different forensics tools including fsstat and istat to parse and obtain data from file systems such as NTFS and FAT32
- Developed client/server socket programs in Python
- Conducted an investigation of a mock crime by analyzing a desktop image and located and extracted artifacts including deleted files and search history

Computer Networks

- Gained extensive knowledge of TCP/IP and network protocols
- Developed client/server socket programs in Python

Data Management

- Made complex queries in large databases using PostgreSQL
- Designed databases with ER models
- Improved databases by utilizing selection, tuning, functional dependencies, and normalization

Computer System Principles

- Implemented a cache simulator in C
- Programmed a bank simulator in C++

Web Programming

- Developed full-stack applications including a Scrabble game using JavaScript, HTML, CSS, NodeJS, and PostgreSQL

Operating Systems

- Implemented a simple UNIX-like filesystem in C++
- Programmed a malloc/free memory allocator in C
- Wrote a scheduler that simulates CPU scheduling policies in C

Algorithms

- Applied dynamic programming to create a seam carving Python program
- Used a divide and conquer approach to implement a Python program that finds all anagrams of a given dictionary

Scalable Web Systems

- Implemented a producer/consumer service model for the back-end using Express in Node.js
- Programmed a full-stack social media application using the Svelte framework
- Implemented full-stack applications with Svelte, Express, MongoDB, and Docker

SKILLS

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

Tools: Git, GitHub, Docker, PostgreSQL, Node.js

WORK EXPERIENCE

Sales Associate, **Patriot Care** Greenfield, MA July 2019 - July 2022

- Executed sales in a fast-paced environment
- Communicated effectively with customer base
- Managed financial transactions both large and small
- Understood and operated within government regulations and guidelines pertaining to privacy, health, and safety

Sales Associate, **Friendly's Restaurant** Greenfield, MA April 2011 - June 2019

- Balanced large and small payments on behalf of clients
- Explained extensive knowledge of products and pricing to customers in a thorough and professional manner
- Learned to work professionally in a cooperative service environment