
Education & Certifications

Elizabethtown College | Bachelor of Science | Elizabethtown, Pa

3.17 GPA | 2020

- Major: B.S. Computer Science

Relevant Course Work

Data Structures, Systems Programming, Compiler Design, Software Engineering, Database Systems, Networking, Operating Systems, Computer Security, Microcomputer Architecture, Data Science, Digital Logic Design I, Algorithms, Mathematical Proofs

Experience

Technical Support/General IT | Library & IT, Bucknell University, Lewisburg, PA

Summers 2016-2019

- Provided technical support for campus computers, consulting with faculty, students and staff to resolve problems, understand needs, assess feasibility, and develop effective technological solutions to meet those needs.
- Imaged and deployed windows and apple-based computers on and off campus, performed routine upgrades to all departments.

Computer Instructor | Box of Light, Lewisburg, PA

Summers 2013 – 2014

- Instructed classes for students ages 7-12 teaching technical skills for robotics, film production, comic design, and stop motion with Lego's
- Setup and maintained LAN/WAN servers for Minecraft game used as a tool to help students make short films
- Maintained forums for the server and answered student/parent questions

Computer Science Tutor at Elizabethtown College | Elizabethtown, PA

August 2018 – May 2020

Computer Science I/II, Data Structures, Systems Programming.

- Selected by Dr. Leap (Chair of CS Department) based on expertise to assist students with CS I, II, Data Structures, and Systems Programming
- Personalized instructions to optimize student one on one learning.

Projects

Jaybook E-reader app | Elizabethtown College

January 2019 - May 2019

- Utilized an agile workflow with weekly standups with group to optimize workflow.
- Utilized Git repo with team to allow for code compilation and version control
- Created android E-reader app to read E-books. Created custom front end and back end with calls to FolioReader API's

Cluster Computer | Senior Project

August 2019 – December 2019

- Created using OpenMPI and NFS
- Current cluster comprised of five machines, one master node and four client nodes
- All machines can talk to master via passwordless ssh
- Used NFS to create a network addressable file system to allow all towers to read the current job files
- Currently can run files written in the C language

Discord Bot | Personal Project

Since 2019

- Built and maintain a custom interactive discord bot for my discord server.
- Written in JavaScript, running on Node.js, and utilizing a MySQL database. Contains multiple unique commands, all varying in complexity.
- This project served as a fun way to learn a new language and better my knowledge with Git.

Personal Website | Personal Project

Since 2019

- Built personal website at jimobr.com to host links to side projects and share technical information
- Utilized bootstrap and highlighted links to GitHub, resume, LinkedIn, and side projects

Skills & Abilities

Languages: C/C++, Java, PowerShell, Python, HTML/CSS, Bash, JavaScript, MySQL

Platforms: Windows, Linux, and Unix server environments, Git, Agile, JetBrains IDEs, Eclipse, Software engineering methodologies.