

## Education & Certifications

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**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, Digital Logic Design I, Algorithms, Mathematical Proofs

## Experience

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**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

Since May 2018

*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

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**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. 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](http://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

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**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.