

# James O'Brien

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**Education:** BS in **Computer Science** (GPA 2.9)

**May 2020**

Elizabethtown College, Elizabethtown, PA

**Relevant Courses-** Computer Science I, II, Microcomputer Architecture, Data Structures, Systems Programming, Fundamentals of Computer Security, Computer Security, Computer Networking, Software Engineering, Compiler Design, Calculus I, and Mathematical Proofs

**Skills:** Java, C/C++, Python, MySQL, HTML, CSS, Javascript  
Window's, Linux/Unix environments  
Leadership & Team experience – academics & IT projects  
Github version control

## Computer Science Projects

### Personal website

- 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

### Electric Longboard

Microcomputer Architecture Class

- Researched, designed, and constructed an affordable electric powered longboard as a class final project. Focus on budget and end cost. (Independent project)
- Used internet resources to find and source electric motors, wireless remote controls, and different mounting techniques

### Web Server

Systems Programming Class

- Design and build working web server based on C. (Partner project)
- Server handled html, jpeg, gif, png, txt, c, h, and pdf files
- Utilized git repository for version control

## Experience

### Computer Science Tutor

Etown Learning Zone

2018-2019

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

### Computer Instructor

Box of Light, Lewisburg, PA

Summer 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

### Technical Support/General IT

Library & IT, Bucknell University, Lewisburg, PA

Summer 2016-2018

- 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

**Etown Activities:** Computer Science Club • D&D Club