

## Caleb Voorhees

### EDUCATION

---

B.S. Computer Science Seton Hill University

### EXPERTISE SUMMARY

---

- Software engineer with 1 year of professional experience
- Developing, deploying, and testing software for embedded systems
- Use of standard debugging tools and practices
- Continuous integration and source control of software repositories
- Regular code review for peer pull requests
- iOS development and life cycle processes
- Web application development and deployment
- Bash scripting to automate processes on a Linux system
- User interface design for multiple platforms
- Project planning, management, and organization on multiple teams of different sizes

### TECHNICAL SKILLS / Projects

---

**Operating Systems:** Windows, MacOS, iOS, Linux (Ubuntu, Yocto)

**Programming Languages:** Back End: C++, C, C#, Python, Swift, PHP, SQL, Bash

Front End: XAML, Markdown, HTML, Tailwind CSS, SwiftUI

**Tools:** Visual Studio, Xcode, PhpStorm, PyCharm, DataGrip, VSCode, Notepad++, Tera Term, Win32 Disk Imager, Unity, .NET, Qt, Git, Fork, Bitbucket, Jira, Azure DevOps, Jenkins, Docker, VirtualBox, Vercel, App Store Connect

### Project Experience:

- **SHIP Student/Faculty Portal: Migration of a PHP web app from Symfony to Laravel framework**
  - Fully migrated class/advisee roster system which pulled a list of class and student info for each class from a MySQL database and presented it to the user (professor) based on a selected year and term.
  - Began migration of the internship application system including student internship form submission, and the creation of multiple roles/permissions to allow for a three step approval process to moderate the submission of an internship application.
- **Blood Pressure Medical Device: C and C++ development on an embedded Yocto Linux system**
  - Executed multiple tasks for an overhaul of the UI using Qt framework
  - Regularly updated bitbake recipes to modify and maintain device build process
  - Automated device build process using an Azure DevOps pipeline and a Jenkins build server
  - Updated Linux Kernel udev rules to define allowable USB device connections
- **MVIO Borescope Device: C# development on WPF application**
  - Performed multiple bug fixes using the Visual Studio debugger to fix logical errors and make adjustments to the UI
  - Ran test cases and validation tasks for different release versions of the application
- **Seton Hill Welcome App: iOS application currently on Apple's app store**
  - Used the SwiftUI framework to create a smooth and easily navigable iOS application to present information about Seton Hill's buildings, resources, facilities, and campus history to freshman and other prospective students.
  - Pushed updates to the application on the app store using the App Store Connect tool
  - Balanced technical requests from App Store reviewers while also adhering to a design and branding policy provided by the university