KYLE COOPER

[Website](#) | [Github](#) | [LinkedIn](#)

EDUCATION

Framingham State University, Framingham, MA
Bachelor of Science in Computer Science, December 2016
GPA: 3.7

TECHNICAL SKILLS

• C#	• REST Frameworks	•
• .Net	• SQL	• Object Oriented Programming
• ASP.NET	• GitLab and Git	• Test Drive Development
• C and C++	• AWS	• Agile Development Process

PROJECTS

PiAware Python Wrapper (Python, see it here)
- Constructed a Python wrapper using RESTful APIs for a device that tracks aircraft within range

Student Grade Database Simulator (C++, see it here)
- Designed a system utilizing Object Oriented Programming in C++ allowing a teacher to track and manage grades through a command line tool and a CSV file acting as the database

MPI Scatter Project (C, MPI, see it here)
- A multi-threaded summation application spawning multiple processes, each given a segment of an array, each process calculates the total for their segment and sends it back to the main process to calculate the final sum

Garden Soil Moisture Sensors (Python, React, Django, Postgres database see it here)
- A website to display hardware sensor readings (temperature, humidity and more) to display data about a Tomato Garden

EXPERIENCE

Technology Solutions Experts – *Software Engineer*   May 2020 – Present
- Developed Android, Windows, and iOS applications using C# with an Agile development process
- Configured and implemented a cloud-based Postgres database as backend storage
- Coordinated the implementation of a database version upgrade to exceed to meet future design trends and innovations
- Correct a database access bug in a C++ QT application creating a more reliable connection to the database
- Using Test Driven Development built a full stack web application with C# and .NET allowing users to manage uploaded data from the app
- Created virtualized Linux servers for development environments
- Designed and implemented a document scanning utility allowing users to create PDFs and Word documents from images taken from their phone
- Constructed user experience and implementation tests ensuring the app would exceed specifications
- Performed extensive debugging and profiling within the application improving reliability by eliminating bugs and improving performance
- Documented C# and C++ code including UML diagrams for future contributors to the projects
- Heavily utilized Gitlab, Github and Trello to manage project tasks and bug tracking

Fay School – *Technology Support Specialist*   February 2017 – January 2020
- Created robust python scripts using Pandas to help better aggregate data in spreadsheets
- Automated workflows for managing Mac laptops with Python, Jamf and Bash reducing manual effort
- Leveraged the Gmail API and the IT ticketing system to introduce functionality allowing users to send an email generating help desk ticket improving user access to technical support
- Provided customer support including troubleshooting issues and creating process to help eliminate those issues
- Create scripts to add and remove events from publicly shared calendars

Massachusetts Bay Community College – *Python Teaching Assistant*   Summer 2016
- Conceptualized new course with professor and a team of MassBay students to educate 40 high school students on programming concepts, graphics concepts and basic algorithms
- Involved in teaching student's entry level features and programming concepts with Python using clear and precise communication skills with hands on demonstration
- Taught students basic algorithms to create shapes within Minecraft using Python, including cubes and rectangles