KYLE COOPER

Github | LinkedIn | Website

EDUCATION

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

TECHNICAL SKILLS

- C# .NET
- Java/Scala
- C
- REST APIs
- SQL
- GitLab and Git
- Terraform
- Object Oriented Programming
- Test Driven Development

PROJECTS

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

Json Parser (Go)
- A current project to explore the GO language. A simple JSON parser that will parse utf-8 JSON files

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

Cox Automotive – *Software Engineer* February 2022 – Present
- Update ETL taking advantage of new data sources consisting of millions of rows of data
- Utilized React Component architecture aiding in building a configurable dashboard for users
- Heavy work with Terraform to help maintain and build out AWS infrastructure to support the product

Technology Solutions Experts – *Software Engineer* May 2020 – February 2022
- Developed Android, Windows, and iOS applications using C# with an Agile development process
- Using Test Driven Development built a web application in C# with .NET allowing users to manage uploaded data from the app
- Implemented a cloud-based Postgres database as backend storage for the mobile application and web application
- Implemented a local app database version upgrade to meet and exceed design requirements and trends
- Corrected a database access bug in a C++ QT application improving reliability within the app
- Designed and implemented a document scanning utility allowing users to create PDFs and Word documents from images taken from the mobile application
- Using OpenGLES, and ARCore created a tool allowing users to use the camera to take measurements of real-world objects
- Constructed user experience and implementation tests ensuring the application 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 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
- Created various JavaScript scripts to add and remove events from publicly shared calendars