Kyle Cooper

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EDUCATION

Framingham State University   Framingham, MA

Bachelor of Science in Computer Science GPA: 3.7   *December 2016*

PROJECTS

PiAware Python Wrapper (Python, [see it here](#))
- Constructed a Python wrapper allowing RESTful communication for devices using the piaware/dump1090 ADBS library

Get Github Release (JavaScript various Github Actions Libraries, [see it here](#))
- A Github Action that downloads a Github release from a given Github Repository

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

Ray Tracer (C#, [see it here](#))
- Utilizing a custom math library built a Ray Tracer that produces images of circles

EXPERIENCE

Cox Automotive - Software Engineer   February 2022 - Current
- Build and update ETLs taking advantage of new data sources consisting of millions of rows of data
- Utilized React Component architecture aiding in building a user configurable dashboard
- Maintained and implemented Code as Infrastructure using Terraform to maintain and build out AWS infrastructure to support the product
- Built Restful endpoints using using Spring and Java that queried a database using dynamic SQL built using Jooq
- Created various build and deployment workflows using Github Actions for Scala code

Technology Solutions Experts - Software Engineer   May 2020 - February 2022
- Developed various Android, Windows, and iOS applications using C# and Xamarian
- Built a web application in C# with .NET allowing users to manage uploaded data from a mobile app
- Implemented a cloud-based Postgres database as backend storage for the mobile app and web application
- Implemented a database version upgrade workflow on mobile 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 feature on Android and iOS allowing users to create PDFs and Word documents from images taken from a mobile app
- Using OpenGLES, and ARCore created a tool allowing users to use the camera to take measurements of real-world objects
- Performed extensive debugging and profiling within the application improving reliability by eliminating bugs and improving performance
- Heavily utilized Gitlab 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 a help desk ticket improving user access to technical support
- Provided customer support including troubleshooting issues and creating processes to help eliminate those issues
- Created various JavaScript scripts to add and remove events from publicly shared calendars

TECHNICAL SKILLS

Languages: Java, C, GoLang, SQL, JavaScript, C#, Terraform
Developer Tools: Git, Github Actions, neoVim
Frameworks and Libraries: Junit, React, Jooq