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

Get Aircraft Data (GoLang, [see it here](#))
- Back-end written in Go using SQLite and Docker to to retrieve aircraft information

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 maintain ETLs taking advantage of new data sources consisting of millions of rows of data
- Maintained large Spark Streaming jobs feed by Kafka topics utilizing AWS EMR
- Maintained Kubernetes on AWS's EKS that host back-end services
- Built restful endpoints using Spring boot in Java
- Created Java libraries for use with header validation in back-end microservices
- Initiated a rewrite for back-end services from Scala to Java to allowing developers to more easily iterate and improve on back-end services
- Built out Github Actions workflows to deploy and build and deploy Scala and Java projects
- Utilize Terraform to maintain and create AWS infrastructure

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 back-end 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

TECHNICAL SKILLS

Languages: Java, C, GoLang, SQL, JavaScript, C#
Developer Tools: Git, Github Actions, [nVim](#), Terraform, Kubernetes, AWS
Frameworks and Libraries: Junit, React, Jooq, Spring Boot