Andrew Kirkby

38 Selma Court   Weatogue, CT 06089   Cell: (860) 795-3675   andrew.kirkby26@gmail.com

Profile

Full-stack software engineer with experience in creating modern, responsive user interfaces intended for various end users and devices. Experience with querying and compiling data required from various datastores. As well as experience with automation and control of multi axis robots.

Education

Western New England University (WNE), Springfield, MA
Bachelor of Science in Mechanical Engineering   May 2019
Mechatronics Concentration

Employment

Intern Software Engineer   2017 - 2019
Protedyne Corporation, Windsor CT
- Research/Experiment with modern technologies the team was considering adding to our stack
- Develop web based user interface for products using HTML/CSS/AngularJS
- 24/7 Support for dozens of large scale production devices in the field

Associate Software Engineer   2019 - 2021
Protedyne Corporation, Windsor CT
- Design/Develop several SpringBoot services to query and modify data stored in MongoDB and MySQL
- Upgrade web interfaces from AngularJS to leverage latest version of Angular
- Lead SW Engineer on AMR (Autonomous Mobile Robot) project, integrating third party AMR with our internal services via REST.

Software Engineer   2021 - Present
Protedyne Corporation, Windsor CT
- Be a mentor for interns and newest employees, ensuring they have a smooth integration and have the support they need
- Rapidly develop prototype services/interfaces to show management and make changes based on feedback

Projects

Web User Interfaces (Protedyne)   2017 - Present
- Lead developer on all web user interfaces since 2018
- Learn industry standards for web design as well integrate modern libraries with our interfaces
- Programmed modularized Angular libraries that are consumed by other Angular interfaces

Autonomous Mobile Robot (Protedyne)   2019 - Present
- Learn all ins and outs to third party AMR and how we needed to communicate/control it
- Developed a Java layer that would provide an easy method to interface with the AMR based on real time needs provided from user interaction

BrightLife (Personal IoT Smart Home Project)   2017 - Present
- Design and develop IoT devices that leverage BalenaOS (Docker)
- Leverage Firebase for authentication of users, hosting interface, Firebase functions to purge expired states
- Integrate with GoogleCloud Pub/Sub for sending/receiving messages with devices
- Create sleek interface/IOS app for users to register/control their devices

Computer Skills

HTML	Angular/Material	Java	MongoDB	Python
JS/TS	Firebase/GCloud	Firebase	Spring	MySQL
CSS	NodeJS	Docker	REST	Swift

Awards

WNE Best Innovative and Creative Design in a Senior Project	2019
Nominated for LabCorp Chairman's Award	2022