





Kyle Clapper

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PROJECTS

TAKE COUNTER | takecounter.kyleclapper.dev

- Helped an audio engineer track takes during recording sessions at Power Station by building a MacOS app based on React and Electron.
- Improved user experience by adding re-assignable global keyboard shortcuts.
- Increased development speed and reliability by building a CI/CD workflow with automated testing and deployment to AWS S3.

BADSTATS | badstats.offtherailsradio.org

- Built a website to expose and visualize Spotify meta-data using Flask.
- Eliminated deployment cost by building a self managed Kubernetes cluster, using K3S, on Oracle Cloud Infrastructure.

EXPERIENCE

SOFTWARE ENGINEERING INTERN | Jabra September 2023 - Present

- Improved the deployment speed and reliability of the BlueParrott mobile SDK by building an automated CI/CD system using Azure Pipelines.
- Increased firmware portability by helping to integrate a new DSP platform.

TEACHING ASSISTANT | UMass Boston September 2022 - December 2023

- Taught discussion sections where students get practice with lecture material.
- Created additional course materials in response to student needs, including; slide decks, example programs, and puzzles.
- Graded assignments including programming projects and exams.
- Held office hours to provide additional support to students.

SENIOR REACTOR OPERATOR | MIT May 2019 - January 2022

- Passed NRC licensing exams for a Senior Reactor Operator license.
- Ensured the safety of personnel, the public, and the environment by supervising proper operation and maintenance of the reactor while on shift.
- Prevented a significant radiation accident by shutting down the reactor within 30 seconds after seeing alarms and abnormal equipment readings.
- Improved the accuracy of documentation by leading a group of 3 in updating procedures and training manuals to reflect equipment changes and best practices.
- Took a proactive role during a facility outage by leading operators on shift to finish tests and calibrations ahead of schedule.

CHIEF ENGINEER | 91.5 FM WUML, Lowell December 2016 - May 2019

- Increased the accessibility of audio engineering to club members by creating a standardized training and certification system.
- Assisted in the studio renovation by installing audio equipment, wiring logic circuits, and building a remote control and troubleshooting system.
- Ensured broadcast continuity by being on call 24/7 for equipment troubleshooting.
- Contributed to the annual charity benefit concert as the head organizer in 2016 and sound engineering coordinator in 2017 and 2018.

SKILLS

PROGRAMMING

Javascript • Java • Python
Typescript • C • Lisp
HTML • CSS • JSX

FRAMEWORKS

Electron • React • Bootstrap

TOOLS

GitHub • Git • Docker
Jira • Confluence • Ansible

PLATFORMS

Azure • AWS • GCP
OCI • Kubernetes • Android

EDUCATION

MS COMPUTER SCIENCE

UMass Boston | May 2024
GPA: 4.0

BSE CHEMICAL ENG

UMass Lowell | May 2019
GPA: 3.16

CERTIFICATIONS

- CompTIA A+
- AWS Cloud Practitioner

COURSEWORK

- OOP Design Patterns
- Computer Networks
- Concurrent Programming
- Applied Cryptography
- Database Management
- Operational Semantics
- Analysis of Algorithms
- Applied Machine Learning
- Compilers
- Theory of Computation