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John Laws Harrison

github.com/johnlawsharrison
johnlawsharrison.com

EXPERIENCE

| *Software Developer (Contract)* | **90.3 KEXP FM** | JAN 2019 – AUG 2020 |

- Built a web app to help DJs upload music from their personal collections to KEXP's Digital Music Library, saving several hours of work each week.
- Processed audio on the server to automate format conversion, enforce quality, and prepare music for on-air playout.
- Built a music metadata aggregation system, ensuring new audio files arrive in the KEXP Media Asset Management system annotated with rich, searchable metadata fields.
- Since launch, more than 90% of music added to KEXP's weekly on-air rotation is submitted through this system.

| *Software Engineer* | **IBM Cloudant** | JUN 2013 – SEP 2019 |

- Developed REST APIs and backend microservices in Python/Flask for billing, cluster analytics, upgrades, user migrations and more.
- Built alerting and monitoring services; successfully scaled to operate a DBaaS with 200+ noSQL distributed database clusters.
- Performed regular on call operations, incident response, cluster upgrades and root cause analysis.

| *Media Library Intern* | **90.3 KEXP FM** | JAN 2017 – JUN 2018 |

- Used Python and Bash scripting, command line tools, and industrial CD rippers to help digitize more than 70,000 albums in the KEXP collection.
- Designed and developed a web application (Angular, Go, Mongo) allowing users to explore the contents of the library.

| *Teaching Assistant* | **University of Washington** | JAN 2012 – JUN 2013 |

- Courses: Computer Programming I and II
- Led weekly lessons supplementing lecture materials.
- Supervised lab sessions to build students' programming experience in Java.
- Graded homework assignments, midterms, and final exams.

CORE SKILLS

Web Development, Frontend development, REST API and backend services, Agile methodology, Testing, CI/CD

LANGUAGES AND FRAMEWORKS

Python (professional exp), Javascript (prof exp.), TypeScript (prof. exp), Java (prior experience), HTML/CSS
Flask (prof exp.), Django (prof exp.), Angular (prof exp.), Android (familiarity), Material Design

SYSTEMS AND TOOLS

PostgreSQL, MongoDB, CouchDB, Linux/unix command line, Gitlab, Travis CI, Git, Chef, HAProxy

EDUCATION

University of Washington, Seattle — *B.S. Informatics*   2010 – 2013, 2017 – 2019