

McKenzie Bourn

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EDUCATION

B.S. Computer Science, Oregon State University

06/2021 – 12/2024

Coursework: Data Structures & Algorithms, Operating Systems, Software Development, UI/UX Engineering, Database Management Systems, Engineering Design and Problem Solving, Web Development, Computer Architecture & Assembly, Networks, Security, Cloud Application Development

SKILLS & TECHNOLOGIES

Languages: Python, Javascript, HTML/CSS, SQL, C
Technologies: Git, React, NodeJS, Express, MongoDB, MySQL, GraphQL, Docker, Kubernetes, AWS, Jira, Confluence

PROFESSIONAL EXPERIENCE

Backend Engineer Intern, Discogs

06/2023 – 09/2023

Portland, OR

- Actively participated in scrum meetings, contributing to sprint planning, task prioritization, iterative development, and ensuring timely delivery of project milestones within an agile development process
- Implemented a Genre/Style API enabling efficient querying and retrieval of data for the app development team using GraphQL
- Optimized existing APIs resulting in enhanced efficiency and faster runtimes

Medical Device Assembler, Terumo Blood & Cell Technologies

06/2021 – 08/2021

Lakewood, CO

- Memorized over 20 Medical Operation Procedures (MOPs) to build 500+ apheresis kits (TRIMA), resulting in 100% accuracy of product subassemblies.
- Verified Medical Equipment Documentation (MEDs) and ensured compliance with regulatory government guidelines, increasing quality control by 30%.
- Utilized pressure gauges, calipers, flow meters, micrometers & indicator dials to assemble medical devices while applying ergonomics for optimal efficiency; decreased assembly time by 25%.

PROJECTS

JIA.ai Song Recommendation App, NodeJS | React | MongoDB

- Developed a full-stack web application for generating song recommendations based on user input using OpenAI's API and their gpt-3.5 turbo model
- Implemented REST API using Node.js and Express.js to handle HTTP requests and responses
- Integrates separate microservice that generates song recommendations based on genre selection
- Utilizes MongoDB for account creation/storage
- Handles contact form submission using HeroTofu API

PearlLabs Database App, NodeJS | MySQL | HTML/CSS

- Developed a web application enabling users to perform CRUD operations on entities within the database
- Designed and organized database schema to support applications functionality
- Utilizes HTML forms, Handlebars, SQL and Javascript to create intuitive and user friendly interface

Portfolio Website, React

- Designed and developed a responsive personal portfolio website using React.js
- Utilized React components, hooks, and libraries to build out functionalities such as a project gallery, navigation bar and contact form.
- Deployed using Github Pages for easy access and efficient hosting