

# McKenzie Bourn

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## EDUCATION

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**Oregon State University | Corvallis, OR**

**Expected Graduation: Fall 2024**

*B.S. Computer Science*

*Cumulative GPA: 3.72*

**Coursework:** Data Structures & Algorithms, Discrete Mathematics, Web Development, Differential & Integral Calculus, Computer Architecture & Assembly, UI/UX Engineering, Machine Learning, Engineering Computation and Algorithmic Thinking, Engineering Design and Problem Solving

## SKILLS & TECHNICAL TOOLS

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Languages: Python, JavaScript, HTML/CSS

Technologies: Git, React, Node.js, Express.js, MongoDB, PostgreSQL

## EXPERIENCE

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**Medical Device Assembler | Terumo Blood & Cell Technologies**

June 2021- August 2021

- 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

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**Basic Exercise Tracker | Node JS, MongoDB**

- Developed a web application for tracking exercises and workouts, enabling users to create, read, update, and delete exercises and logs
- Implemented RESTful API using Node.js and Express.js to handle HTTP requests and responses for CRUD operations on exercises and logs
- Utilized MongoDB for database storage and retrieval of exercise and log data
- Added error handling and validation checks for user input using middleware functions

**Portfolio Website | React JS**

- Designed and developed a responsive personal portfolio website using React.js, showcasing my skills in web development, design, and content creation.
- 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

**Mancala Game | Python**

- Developed Mancala board game with advanced logic and data manipulation, enabling two players to compete in a text-based version of the game
- Optimized performance by implementing utility methods for traversing the board, getting/setting seeds & checking pit index validity
- Designed object-oriented programming structure that incorporated attributes & methods to accurately simulate rules of the game with debugging & error handling measures