

Robert Schofield

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EXPERIENCE

Software Developer

August 2024 - Present

TopTechRN

Chicago, IL

- Collaborated with a cross-functional team to design and deploy a scalable ICU bed management system using Node.js and React; engineered robust, real-time data synchronization by integrating WebSockets and Redis, which streamlined concurrent operations and enhanced system performance by 10%
- Assisted in building a predictive analytics module with Python and TensorFlow by implementing machine learning algorithms that forecast ICU bed demand with 95% accuracy based on historical trends and current OR schedules.
- Contributed to designing and implementing a secure REST API that interfaced with legacy hospital systems, streamlining complex data queries for optimal bed assignments and resource management.

IT Supervisor

Aug 2022 - Present

Costco Wholesale

Miami, FL

- Leveraged Citrix Workspace (UKG) using thin clients to efficiently manage and assign daily, weekly, and periodic tasks, enhancing team productivity and workflow organization.
- Administered Microsoft Power BI applications, facilitating seamless integration with data warehouses and other Business Intelligence solutions to drive data-driven decision-making.
- Oversaw comprehensive maintenance of critical IT infrastructure, including computers, point-of-sale systems, and server equipment, ensuring optimal performance and minimal downtime.

Software Developer Intern

May 2024 - Aug 2024

Costco Wholesale

Issaquah, WA

- Collaborated with cross-functional teams in an Agile environment, participating in scrum ceremonies and utilizing DevOps practices to design, implement, and deploy software solutions for Costco's e-commerce platforms
- Gained hands-on experience with cloud technologies and big data analytics, working on projects to enhance Costco's digital capabilities and improve customer experience across Costco.com and related websites.
- Participated in code reviews and implemented unit tests using JUnit and Mockito, ensuring high code quality and maintainability across projects.

EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. in Computer Science

Expected 2027

Western Governors University

Salt Lake City, UT

B.S. in Computer Science

Jan 2025

PROJECTS

F1 Championship Predictor

Python, Scikit-Learn, Pandas, Streamlit

- Developed a Python-based machine learning application that predicts the Formula 1 World Championship winner using a Random Forest classifier optimized with SMOTE for class imbalance, and integrated an interactive Streamlit web interface for dynamic user input and real-time visualizations enhanced through data normalization and feature engineering.

Inventory Management System

Java, JavaFX, PostgreSQL

- Designed and implemented an inventory management system featuring robust input validation for inventory modifications, utilizing Java with JavaFX for the user interface and PostgreSQL as the backend for reliable data management.

Delivery Optimization

Python, Hash Table, CLI

- Engineered a package delivery optimization system for Parcel Service (PS) that integrates CSV data into hash tables for efficient package retrieval, calculates optimal delivery routes to minimize mileage, and supports real-time tracking along with user inquiries about package status.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, CSS/HTML

Frameworks: React, Next.js, Express.js

Tools: Git, Docker, Redis

Data Analysis: Pandas, NumPy, Scikit-Learn

Databases: SQL/PostgreSQL, MongoDB