

FAIZAN DHANKWALA

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EDUCATION

University of Washington

Bachelor's, Applied Computing

September 2021 - July 2025

GPA: 3.75

- Data Structures and Algorithms, Introduction to Artificial Intelligence

PROFESSIONAL EXPERIENCE

Lavner Education

Embedded Software Engineer (Tech Team)

Seattle, WA, USA

June 2024 - August 2024

- Designed 5+ hands-on labs covering microcontroller programming, real-time sensor data processing, and hardware-software integration with Arduino and Raspberry Pi.
- Led 50+ students in hands-on workshops, teaching C/C++ and embedded programming for IoT and robotics applications.

The Boeing Company

Java Developer Intern

Redmond, WA, USA

August 2021 - January 2022

- Developed and optimized Spring Boot microservices to automate SAP queries, reducing manual data retrieval time by 30% and streamlining purchase order creation.
- Integrated RESTful APIs with SAP systems, enhancing data flow and enabling real-time tracking of 200+ purchase orders.
- Designed and implemented a Power BI dashboard, leveraging SQL and Java-based ETL processes to monitor supply chain visibility and improve data accessibility.

Location Station

Software Engineering Intern

Remote

August 2021 - December 2021

- Developed a property rental website using HTML, React, and Vite, integrating insights from 10+ competitor analyses to optimize user experience and functionality.
- Improved user engagement by 25% by optimizing page load speed with code-splitting, lazy loading, and server-side rendering.
- Worked closely with a remote cross-functional team to address property sale agency requirements, resulting in a 3% increase in property rentals.

PROJECTS & OUTSIDE EXPERIENCE

Rocket League Object Detection

Developer

April 2024 - June 2024

- Developed a machine learning model using Python, TensorFlow, and OpenCV to analyze 1,000+ Rocket League gameplay frames, detecting ball and boost locations with 92% accuracy.
- Implemented a Convolutional Neural Network (CNN) trained on labeled gameplay data, optimizing detection performance with data augmentation and transfer learning.
- Integrated real-time object tracking, enabling dynamic analysis of in-game elements for potential use in player performance insights and AI-powered coaching tools.

Crea8Folio

Developer

September 2024 - December 2024

- Developed a portfolio builder for 200+ business students using React and Grape.js, enabling users to create and customize portfolios through a drag-and-drop interface without coding expertise.
- Engineered a modular component system, allowing users to seamlessly add, edit, and rearrange portfolio elements with real-time previews.
- Integrated state management with Redux, ensuring smooth UI updates and efficient handling of user interactions.

SKILLS

Skills: Agile, Airflow, Python, Java, HTML/CSS, Excel/Numbers/Sheets, Asana, AWS, Adobe Photoshop, AutoCAD, Canva, Figma, Flutter, Development Operations (DevOps), Spring Boot