# Faizan Dhankwala

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## EDUCATION

**University of Washington**                                   **September 2021 - July 2025**
*Bachelor's, Computer Science*                                 *GPA: 3.75*
- Data Structures and Algorithms, Introduction to Artificial Intelligence

## PROFESSIONAL EXPERIENCE

**Airbus**                                                     **Mobile, AL, USA**
*Data Science Intern*                                          *May 2025 - Present*
- Supporting operational analytics for the A220 fleet by optimizing Advanced Drilling Unit (ADU) tooling processes in the Backshop and Takt Line
- Analyzing historical and real-time production data to identify trends in ADU consumption, failure rates, and lifecycle patterns specific to A220 assembly
- Developing and standardizing an A220-focused ADU Reference List by categorizing tools based on usage, specifications, and compatibility across production stations

**The Boeing Company**                                         **Redmond, WA, USA**
*Software Engineering Intern*                                  *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.

## PROJECTS & OUTSIDE EXPERIENCE

**Ekko.AI**  -  *Link to project*                             *May 2025 - June 2025*
*Developer*
- Developed a React-based chatbot application that interacts like Ekko, a character from League of Legends, using the Gemini API for natural language processing.
- Implemented state management with React hooks and asynchronous data fetching to provide smooth and dynamic user interactions.
- Designed a clean and responsive user interface, focusing on usability and accessibility to enhance user experience.

**Spring Boot 3.0 Security with JWT Implementation**  -  *Link to project*                **Remote**
*Developer*                                                    *March 2025 - March 2025*
- Implemented Secure Authentication: Developed user registration and login functionality using JWT authentication, enhancing security for user data and session management.
- Password Encryption: Utilized BCrypt for password encryption, ensuring secure storage of user credentials and protecting against common vulnerabilities like rainbow table attacks.
- Incorporated a refresh token system for seamless session management, allowing users to obtain a new JWT token without re-login; deployed the solution on AWS for scalability and secure access.

**House Price Prediction Model Using Machine Learning**  -  *Link to project*              **Remote**
*Developer*                                                    *April 2024 - June 2024*
- Developed a visualization tool using Python and Matplotlib to analyze the performance of a predictive pricing model, plotting actual vs. predicted prices on a scatter plot.
- Calculated key performance metrics, achieving 3% Mean Absolute Error, 2.5% Root Mean Squared Error, and an R2 score of 97%, ensuring a accurate model

## SKILLS

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