

Derek Parker

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SUMMARY

Data Science Major with experience in machine learning, web development, software development, and statistical analysis with hands on experience in successfully developing predictive models for real world problems. Adept at using Python, Java, and HTML/CSS, and skilled in leveraging libraries such as Pandas and Scikit-Learn. Eager to apply my skills, learn, and solve problems.

EDUCATION

Western Washington University | 2022-2025

- Bachelor of Science in Data Science
- Mathematics Minor
- Whatcom Coders Club
- Data Science Club

South Puget Sound Community College | Associates Degree 2020-2022

- Running Start

WORK EXPERIENCE

Waivers | The Ridge Motorsports Park, 2021

- Welcomed and checked in over 500 members annually, ensuring a seamless registration process and providing exceptional customer service
- Demonstrated diverse communication skills by interacting effectively with racing teams, spectators, partners, and teammates to ensure successful execution of multiple events

PERSONAL PROJECTS

Personal Portfolio | HTML, CSS, JavaScript

- Developed an interactive personal portfolio website resulting in a visually appealing, user-friendly interface, and mobile friendly environment
- Enhanced website performance by efficiently implementing responsive design principles

Housing Market Prediction | Python, Pandas, Seaborn, Scikit-learn

- Pioneered the development of a gradient boosting regression model to successfully predict housing prices in King County
- Executed rigorous model evaluation and fine-tuning using cross-validation, optimizing hyperparameters using Random Search, and standardization
- Designed visualizations by using seaborn to identify correlations between other features and the price of houses
- Analyzed, organized, and presented predictions and data using PowerPoint

Rebuilt NASA's APOD | Java

- Developed and implemented a Java application using NASA APIs to display the photo of the day on a GUI
- Executed a comprehensive testing plan for the Java application, resulting in a 100% bug-free release and increased user satisfaction
- Utilized technologies such as HttpURLConnection and Gson for API communication and JSON parsing

SKILLS

- Software: Java, Basic C, HTML, CSS, Basic JavaScript, Python, Pandas, Machine Learning, Web Development, Git, Github, Basic MySQL, APIs
- Mathematics: Calculus I – III, Statistics and Distributions, Linear Algebra
- Relevant Coursework: Object Oriented Programming, Fundamental of Data Science, Data Structures, Computer Systems, Functional Programming