Preston Zacha

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EXPERIENCE

FlightSafety International   **Broken Arrow, OK**
Software Engineer   *December 2024 - Present*
- Developed and maintained aircraft simulator systems and navigation software
- Collaborated with cross-functional teams to integrate simulator software for high-fidelity aviation environments
- Gained experience across the full development lifecycle, from software implementation to customer-facing deployment and certification

EDUCATION

University of Texas at Dallas   **Richardson, TX**
Bachelor of Science, Computer Science

                                                          August 2023

Organizations: Association for Computing Machinery, Artificial Intelligence Society

Relevant Coursework: Data Structures and Algorithms, Algorithm Design and Analysis, Intro. To Machine Learning, Artificial Intelligence, Computer Networks, Database Systems, Systems Programming in UNIX/LINUX, Computer Architecture, Operating System Concepts

Computer Languages and Tools: Java, C/C++, Node.js, CSS, HTML, Python, Git, MongoDB, Firebase, MySQL, SQL, R, Docker, Verilog, LISP, Scikit-learn, Postman, MIPS, Numpy, Fortran, TFS, VSS

TECHNICAL PROJECTS

Personal Website
Language Used: HTML, CSS   *Spring 2024*
- Built a portfolio website from scratch using HTML and CSS.
- Demonstrated ability to create responsive and visually appealing web pages
- Increased proficiency in HTML and CSS for website development

Naive Bayes Machine Learning Model
Language Used: C++   *Spring 2023*
- Built a Naive Bayes machine learning model from scratch in C++. Used a Titanic data set to make predictions on whether a passenger survived or not.

Capstone Mobile App
Language Used: JavaScript   *Summer 2023*
- Developed CRUD functions to use with Firebase and MongoDB
- Implemented a custom API to communicate with Firebase and custom hardware
- Obtained first-hand experience with the SCRUM sprint cycle, and developed professional communication skills

PROFESSIONAL SUMMARY

Software Engineer with 1 year of industry experience in aviation and simulation. Skilled in C++ and Java, with hands-on experience developing backend systems and creating front-end applications. I bring a broad technical foundation, adaptability across the stack, and a strong drive to contribute to impactful software projects.