ALAN VELEZ

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Software Engineer and U.S. Air Force veteran with nearly 2 years of professional software development experience building scalable solutions and distributed systems in the legal services space. Skilled in designing and implementing process automation and cloud-based data processing pipelines from conception to deployment. Recent Computer Science graduate soon beginning Master's program at Georgia Tech.

TECHNICAL SKILLS

- **Programming Languages:** C#, Java, Python, SQL
- **Frameworks & Cloud:** .NET Framework, Playwright.NET, Microsoft Azure, Snowflake
- **Tools:** Visual Studio, Git, Postman, Azure DevOps, Azure Data Factory, Salesforce
- **Core Competencies:** Object-Oriented Design, Data Structures & Algorithms, Agile Development, Robotic Process Automation

WORK EXPERIENCE

Excelsior Equity Partners, *Allen, TX* — **Jun 2023 - Present**

Junior Software Developer *(Jan 2024 - Present)*

- Led the development of a Playwright-based RPA to automate the filing of thousands of cases to a district court through the PACER website, saving the company hundreds of hours and solving a critical 2-month time constraint.
- Automated the extraction and validation of client data from a partner website using Azure Data Factory pipelines and Snowflake to process and store the data for our analytics team to review critical data.
- Built an API connection to send client medical records to a partnered law firm's Salesforce/Docrio.

Software Development Contractor *(Sep 2023 - Dec 2023)*

- Created a Playwright-based RPA to automate the creation of sample intakes through Salesforce and the testing of client-facing medical intake questionnaires, ensuring compliance with DNQ (Does Not Qualify) rules.
- Developed a Selenium-based tool to check AWS and Azure server status pages, integrating real-time health monitoring into our notification command center.

Software Development Intern *(Jun 2023 - Aug 2023)*

- Created a proof of concept for a Python/Flask-based RESTful API that allows users to input and receive medical data.
- Integrated an Xgboost model to the RESTful API to analyze the inputted medical data and return predictions indicating the risk of certain diseases.

United States Air Force, *Various Locations* — **Feb 2015 - Sep 2022**

Logistics Supervisor, Non-Commissioned Officer (Secret Clearance) *(Apr 2020 - Sep 2022)*
Yokota Air Base, Tokyo, Japan

- Supervised a multidisciplinary team that directly supported petroleum and cryogenic distribution systems valued at $126M.
- Forecasted product requirements and coordinated logistics for 21M gallon inventory of multi-grade fuels to support US and allied nations.

RELEVANT PROJECTS

Thyroid Cancer Recurrence Prediction Tool — **May 2025**

- Developed an end-to-end binary classification model using XGBoost to predict the likelihood of thyroid cancer recurrence from clinical data.
- Created a complete data science pipeline, including data cleaning, exploratory data analysis (EDA), feature engineering, and preprocessing with Scikit-Learn
- Created an interactive prediction dashboard with ipywidgets to provide a user-friendly interface for clinicians to input patient data and receive real-time risk assessments.

EDUCATION

Master of Science, Computer Science — **Expected Aug 2027**
Georgia Institute of Technology
Atlanta, GA

Bachelor of Science, Computer Science — **Graduated May 2025**
Western Governors University
Salt Lake City, UT