

Zach Norman

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Experience

Application Engineer, Vanguard – Malvern, PA *fillin* May 2023 - Present

Contracted Developer, Orita Feb 2022 - Nov 2022

Python, Django, HTML, JavaScript, Svelte

- Created a Python program to generate a PDF of a business analytics report given a JSON file.
- Implemented front-end design for user login, data upload, and e-commerce account connection for companies to easily access and upload their data for analysis

Developer Co-op, Baltimore Orioles – Baltimore, MD Jan 2022 - Sep 2022

Python, JavaScript, Django, React

- Developed an amateur baseball player dashboard page containing data on draft-eligible players including implementing data retrieval and aggregation, and front-end interface with various filtering options.
- Wrote data processes and AWS Lambda functions to aggregate or correct data from games and update database tables
- Added edit features to game report audit pages, including the ability to add, delete, or reorder rows of data, and clear data columns, improving ability for coaches and analysts to correct and use game data.

Education

Villanova University, MS in Applied Statistics and Data Science Aug 2023 - Aug 2025

Northeastern University, BS in Computer Science and Mathematics Sep 2020 - Apr 2023

Projects

Multi-User Drawing Tool github.com/name/repo

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar github.com/name/repo

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System 2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: Python, R, JavaScript/TypeScript, Java, SQL, HTML

Frameworks/Libraries: React, Svelte, Django, pandas, Plotly, scikit-learn, D3, tidyverse

Tools: Git, JetBrains IDEs, Visual Studio Code, Jupyter Notebook, AWS (Glue, Lambda, S3, IAM), Figma