

# ESTEBAN PEREDO

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## EDUCATION

**University of Maryland**

**Bachelor of Science in Computer Science**

**Minor in Mathematics**

**College Park, MD**

**Cumulative GPA: 3.65**

Expected Graduation: May 2025

### Relevant Coursework:

Object Oriented Programming I & II, Computer Systems, Discrete Mathematics, Calculus I & II & III, Linear Algebra, Organization of Programming Languages, Algorithms, Probability and Statistics, Web App Development, Data Science, Applications of Linear Algebra, Compilers, Machine Learning, Android App Development, Algorithm Design and Analysis

## PROFESSIONAL EXPERIENCE

**Amazon** – Software Development Engineer Intern

**New York, NY**

*Python, Typescript, React, AWS, Flask, RESTful API, pandas, git*

*June 2024 — Aug. 2024*

- Implemented a meeting transcript summarizer to boost productivity for Amazon's Product and Customer Insight Managers by training a machine learning model and leveraging Generative AI.
- Generated transcript summaries and recommendations using AWS Bedrock's Claude Haiku 3 model.
- Implemented multi-shot inference by reading existing examples from S3 to provide context for accurate summarization. This approach gave the model a nuanced understanding of the task which yielded detailed insights.
- Developed a REST API to facilitate the upload, storage, and processing of transcripts using a Flask server in Python.
- Used a hashing algorithm for transcript files stored in AWS S3 to skip reprocessing already processed transcripts, preventing redundant API calls. Also adhering to Amazon's file storage standards and protocols.
- Created the web app to upload meeting transcripts and display generated insights using TypeScript and React.
- Designed UI/UX for a web app with AWS UI libraries to create an Amazon-styled interface with AWS integration.
- Worked with the Touchstone team, a subdivision of Amazon's Customer Experience & Business Trends organization

**Huntington Ingalls Industries** – Software Engineer Intern

**Hanover, MD**

*Typescript, React, CSS, Cesium, Node.js, Red Hat Linux, ClearCase, agile*

*June 2023 — April 2024*

- Worked on Minotaur, software that links aircraft sensors, cameras, radar, and communications equipment into a single system for operators to identify and track any suspicious or illegal activity on both land and sea more efficiently.
- Developed a new Coordinate Picker feature using TypeScript and React, enabling operators to interactively create and save custom areas of operation on a 3D map within Minotaur's Pre Mission-Builder.
- Revived the integration of Cesium into the project after a previous unsuccessful attempt, contributing to improved geospatial visualization and the user interface experience.
- Collaborated in an agile environment with the PGS (P8 ground service) team, a subdivision of the Minotaur Team.
- Engaged in research and concept development with the PGS team, to coordinate and plan the implementation of the Coordinate Picker that best aligned with the product owners' goals. Then presented the findings to team leads.
- Minotaur Project was awarded a 5 year \$244 million government contract in October 2023

## Projects

**Spotify Playlist Generator**

**College Park, MD**

*Spotify API, MongoDB, Typescript, React, Express, Node, HTML, CSS*

*Spring 2024*

- Developed a web app that creates custom Spotify playlists based on user inputs regarding genre, valence, and rhythm.
- Built responsive UI components with React for an intuitive user experience, while using MongoDB for persistent storage of user preferences, allowing data to be queried and updated dynamically through the server.
- Designed an Express.js server to handle API requests, manage routes, and integrate the front end with the back end.

**Defensive Disruption Research**

**College Park, MD**

*Python, Pandas, NBA API, SciPy, LaTeX*

*Spring 2024*

- Researched the impact of defense in the NBA using mathematical analysis on various "hustle" statistics to evaluate the impact of defensive performance on NBA game outcomes, providing insights into key defensive metrics.
- Data visualized defensive performance by identifying areas on the court where teams excelled or fell below league average, highlighting strengths and weaknesses in defensive strategy.
- Compiled research findings into a comprehensive LaTeX report, presenting an organized detailed statistical analysis.

**NBA Betting Model**

**College Park, MD**

*Python, Twitter API, BeautifulSoup, cron*

*Winter 2023-24*

- Developed a Python-based Twitter bot that automates daily updates on NBA game spread predictions
- Applied linear regression analysis to predict game outcomes based on historical performance, betting spreads, and various basketball statistics, leveraging data scraped from multiple sources to optimize betting recommendations.
- Tweets were posted 1 hour before the first game tipped off automatically via a cron job which ran the python script

## SKILLS

**Proficient Skills:** Python, TypeScript, JavaScript, React, Node.js, AWS, Pandas, Agile, Git, Vim, Linux, fluent in Spanish

**Academic/Project Skills:** Java, C/C++, Kotlin, OCaml, Racket, Ruby, Rust, MIPS & a86 assembly, R, MATLAB, LaTeX

**University of Maryland Semester Academic Honors:** Fall 2021, Spring 2022, Spring 2023, Fall 2023, Spring 2024