

# Paramraj Singh Machre

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## EDUCATION

### University of Maryland, College Park

Expected Graduation: May 2025

Bachelor of Science in **Computer Science**, Minor in **History**

GPA: 3.45/4.0

- **Awards:** Dean's List for Outstanding Students (Dec. 2021, Dec. 2023)
- **Relevant Coursework:** Discrete Structures, Linear Algebra, Computer Systems, Applied Statistics and Probability, Programming Languages, Algorithms, Databases, Data Science, Web Applications Development, Advanced Data Structures, Computer Vision, Computer and Network Security, Programming Handheld Devices, Programming Language Technologies

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C/C++, JavaScript, Kotlin, HTML/CSS, Matlab, Ruby, OCaml, Haskell

**Frameworks/Databases:** React, Node.js, JUnit, RestAPI, Excel, MySQL, MongoDB

**Libraries:** Pandas, NumPy, Matplotlib, Tensorflow, Pytorch

## EXPERIENCE

### Software Developer Intern, Snowflake Inc.

Dublin, CA

May 2024 – Aug. 2024

- Designed and implemented a comprehensive **JUnit testing framework** with **16 regression scenarios** across **200+ JSON contract types**, reducing test time by **87%**.
- Developed a **Streamlit UI** tool using **Python, SQL, and Snowpark** to visualize and debug stored procedures, decreasing engineer query time by **45%**.
- Optimized month-end **IT finance calculations**, reducing timeouts to **0**, eliminating manual interventions, and improving runtime by **94%**.
- Added **granular logging** for blackbox procedures, significantly enhancing **debugging efficiency** and post-run transparency.

### Data Science Intern, Spocto Solutions

Mumbai, India

Jun. 2020 – Aug. 2020

- Implemented **linear regression**, **logistic regression**, and **decision tree models** using **Python** on large datasets to predict debt payback likelihood with **94% accuracy**.
- Collaborated with **4 interns** to build **data pipelines** and perform preprocessing and **feature engineering**, improving model training speed by **35%**.
- Redesigned **ARDSI's** website using **PHP** and **HTML/CSS**, improving usability and increasing engagement by an estimated **60%**.

### President, Maryland Club Climbing

College Park, MD

Jan. 2024 – Dec. 2024

- Led **75+ members** in weekly climbing sessions and **competitions**, while securing partnerships with **SportRock Gyms** and **Mid Atlantic Climbers** to expand training access and support local community service events.

## PROJECTS

### Electronic Document Management System

Java, MongoDB, REST API, HTML/CSS, JavaScript

- Built a **full-stack** document management system enabling users to upload, search, and manage files via a **RESTful Java backend** and **dynamic HTML/JS frontend**.
- Integrated **MongoDB** for metadata storage and file system persistence; implemented secure access, tag-based search, and modular **API endpoints**.

### Recipe App

Kotlin, Android, Firebase, SharedPreferences, JSON, Google Mobile Ads, MVC Design

- Developed a modular Android app using **MVC architecture** to create, store, and search recipes with dietary filters, leveraging **Firebase Realtime Database** and **SharedPreferences** for persistent storage.
- Implemented interactive UI with custom views and **Google Ads integration**; serialized recipe data using **JSON** and enabled email sharing functionality.