

ARYA PERBHAKEER

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SUMMARY

Software Developer passionate about building smart, practical solutions that actually make life easier. Experienced in developing full-stack applications using **React, Django, and Machine Learning** — with a focus on turning complex ideas into simple, usable products. Currently building an **AI-powered driveway visualization platform combining image recognition, deep learning, and real-time user interaction**.

EDUCATION

Software Development, Southern Alberta Institute of Technology (SAIT)
GPA-3.88

PROJECTS

Driveway Visualization Platform using AI-powered Image Segmentation

React | Django REST | Machine Learning | PostgreSQL | AWS

- Built an end-to-end **image-based recognition platform** enabling automated driveway detection and dynamic material visualization using deep learning segmentation models.
- Integrated a custom **Machine Learning** pipeline for image preprocessing, model inference, and intelligent overlay rendering to simulate different concrete textures.
- Optimized system performance with efficient data storage in **AWS S3, PostgreSQL, and IndexedDB** for faster retrieval and offline support.
- Implemented scalable backend architecture with advanced features like **real-time quote generation and role-based access control** for secure user management.

Finance tracking system

React | Next.js | Tailwind CSS | Prisma | MySQL

- Built a personal **finance tracking system** to help users effectively monitor and manage their monthly spending habits.
- Integrated **Google OAuth** for secure user authentication and verification.
- Allows users to add various transactions, categorize them, and **calculates the monthly total** to provide a clear financial overview.
- Developed a complete application with a responsive frontend, robust backend, and seamless database integration to ensure reliable functionality.

SKILLS

- **Frontend Development:** React, React Native, Next.js
- **Backend Development:** Django, Django Rest Framework
- **Languages:** JavaScript, Python, Java and C#
- **Database Management:** PostgreSQL, MySQL, Google Cloud Firestore
- **Tools & Platforms:** Git, GitHub, Visual Studio Code
- **Others:** Image Recognition Software, REST API Development, Machine Learning