ABHISHEK VERMA

Engineer

Contact

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Skills

Kotlin

GoLand

DBMS

Data Structures & Algorithms

AI Tools

Prompting

HTML5

API Design

Computer Networks

Operating Systems

Python

JavaScript

Java

C++

Go

MySQL

Jenkins

Git

Deep Learning

Postman

IntelliJ IDEA

Problem Solving

Visual Studio Code

PostgreSQL

Android Development

Experience

Software Development | Cognifyz Technologies
Mar 2025 – Apr 2025, Mumbai

- Worked as a Software Development Intern with Cognifyz Technologies did projects under their guidance.

Education

ENGINEERING Aug 2022 – Present

12TH/PUC May 2020 – Jul 2021
Ramnagar Varanasi , Uttar Pradesh

10TH May 2018 – May 2019
Ramnagar , Varanasi Uttar Pradesh

Projects

Neural Threads :- AI Powered Fashion Platform

- Neural Threads is a cutting-edge AI-powered fashion platform designed to connect Indian fashion designers, customers, and skilled tailors in a single, seamless ecosystem. It bridges the gap between traditional craftsmanship and modern technology, making fashion more personalized, accessible, and collaborative. The platform uses advanced deep learning algorithms to understand a user's body type, and occasion style preferences, and occasion needs, delivering outfit recommendations that are unique, stylish, and perfectly tailored.
- Top Functionalities:
- Discover Designers – Users can explore a diverse range of Indian fashion designers, view detailed portfolios, and collaborate to create bespoke outfits.
- AI Stylist – An intelligent styling assistant that offers personalized outfit suggestions based on body measurements, preferences, and event types.
- Hyperlocal Tailor Network – Enables customers to find skilled local tailors for accurate fittings and high-quality stitching.
- One-on-One Consultations – Direct chat features allow customers to discuss their vision with designers and receive expert advice.
- Search & Filter – Find designers or tailors by specialization, style, or location for quick matching.
- Portfolio & Reviews – Access designer ratings, customer reviews, and work samples to make informed choices.
- Trend & Style Updates – Stay updated on the latest fashion trends, designer spotlights, and exclusive offers.
- By combining personalization, technology, and artistry, Neural Threads is redefining how people experience fashion in India — making every outfit a statement of individuality.

Routes For the Motar Disability Persons

This project addresses the critical challenge of inaccessible public transportation for individuals with motor disabilities, such as wheelchair users, who face physical barriers (e.g., uneven sidewalks, crowded vehicles) and insufficient real-time route planning support. By integrating deep learning and graph theory, the study proposes a data-driven framework to optimize accessible urban mobility. Using Riga, Latvia, as a case study, it combines GTFS transit data (routes, schedules), electronic ticket validations (passenger counts), and OpenStreetMap sidewalk data (surface quality, lighting) to model pedestrian and transit networks. A walkability score evaluates sidewalk accessibility, while a directed graph represents transit stops and routes, identifying wheelchair-friendly paths. Recurrent Neural Networks (LSTM/GRU) predict passenger loads to avoid overcrowded vehicles, with simpler Exponential Moving Average (EMA) models outperforming deep learning in accuracy. Results highlight poor sidewalk conditions in central Riga

Machine Learning

TensorFlow

Object-Oriented Programming

Project Management

OpenAI

Lovable

Cursor IDE

GitHub Copilot

Agentic AI

n8n

AI Automation

Node.js

and demonstrate how integrating predicted passenger counts into route planning improves accessibility. This approach not only empowers individuals with disabilities but also promotes inclusive urban design, offering cities a scalable model to enhance public transport equity through advanced analytics and multi-source data integration.

DevConnects

- Project Title: DevConnects – Real-Time Developer-Client Collaboration Platform
- Description:
- DevConnects is a full-stack Web, Android and IoS application platform designed to seamlessly connect clients and developers for instant collaboration, project discussions, and secure transactions. The platform enables clients to find skilled developers in real time, initiate instant communication, schedule meetings, and make payments through blockchain-based escrow systems.
- The backend is built in Go using the Gin framework to ensure high performance and scalability. Key backend features include:
- Authentication & Authorization: Secure JWT-based login/signup with Role-Based Access Control (RBAC) to differentiate client, developer, and admin permissions.
- Real-Time Chat: WebSocket-powered instant messaging with persistent conversation history.
- Video Call Scheduling & WebRTC Integration: Enables instant or scheduled peer-to-peer video meetings with call metadata.
- Project & User Management: Full CRUD APIs for clients, developers, and projects stored in structured JSON or databases.
- Blockchain-Based Escrow Payments: Ensures safe transactions where funds are released upon project completion.
- The frontend (planned in Kotlin for mobile) focuses on a clean, responsive UI for profile management, project browsing, live chat, and video calls.
- Key Highlights:
- Modular and extensible backend architecture.
- Secure, scalable communication and payment channels.
- Real-time developer availability tracking.
- Future-ready with AI-assisted matching and support.
- Impact:
- DevConnects bridges the gap between clients and developers by combining speed, security, and simplicity. Whether for quick bug fixes or long-term projects, it ensures transparency, reliability, and productivity in a single platform.

User Module API

- The User Module API is a crucial part of the backend system in my project, responsible for handling all user-related operations such as registration, login, authentication, profile management, and authorization. It was developed following RESTful API principles using [insert your backend technology, e.g., Go] and for framework we have used Gin.
- The module enables user registration with proper input validation and password hashing using bcrypt. For user login, it authenticates credentials and issues secure access tokens using JWT (JSON Web Tokens). These tokens are then used to protect private routes and ensure secure session management.
- The API also supports profile management, allowing users to view and update their details, including name, email, and password. Additional features include password reset functionality through email tokens and optional email verification after registration.
- Role-based access control was implemented to differentiate between regular users and admins, ensuring that protected endpoints are accessed only by authorized users.
- Security measures such as input validation, token expiration, rate limiting, and CORS were also integrated. Tools like Postman were used to test and document the API endpoints.