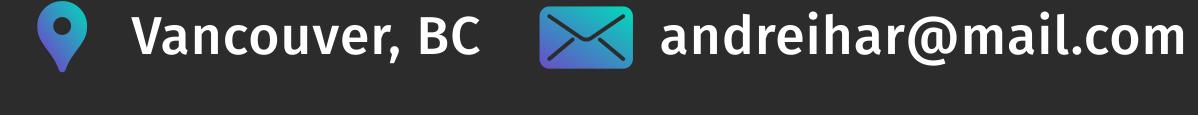
ANDREI HARBACHOV

Full Stack Developer | AI Scientist



andreihar.com in andreihar (7) andreihar







Overview —

am a Computer Science graduate specialised in Artificial Intelligence and Visual & Interactive Computing. Experienced in programming, data analysis, and full-stack development. I have led cross-functional teams on AI and web development projects, creating impactful

Al-driven solutions for real-world problems.



Tools & Languages

- HTML, CSS, Tailwind CSS, Bootstrap Node.js, Express, Flask, SQL Python, NumPy, Pandas, PyTorch
- React, Next.js, Angular, TypeScript
 Java, C, C++, MATLAB, Android
 TensorFlow, Keras



Projects

Footy Al Next.js, MUI, NumPy Mar - Jun, 2024

Football Match Al Predictor

- Designed and implemented a streamlined prediction model using key match characteristics to accurately forecast UEFA Euro outcomes
- Created a **dynamic user interface** with MUI, featuring **multilingual support** and complete statistics for Euro tournaments, presented through **interactive graphs and tables**
- Implemented routing-based localisation and access to Euro tournaments, enabling server-rendering with Next.js for a fast user experience without client-side compiling

Jan - Mar, 2024

Repo Live Demo

ChharmCooks React.js, Express, PostgreSQL, Firebase, Auth0

Dynamic Recipe Sharing Platform Developed a platform for users to create, discover, and explore Hokkien recipes, featuring user-generated content and community engagement

Repo Live Demo

- Built a back-end with Express for efficient data management and CRUD operations, ensuring data integrity and scalability through a structured schema in PostgreSQL
- Implemented authentication with Auth0 to secure recipe management, and enhance user engagement through comment sections and notifications for user activity
- Optimised user experience with multi-language support, responsive design, and intuitive UI features like filtering recipes and adjusting serving sizes

May - Aug, 2022

Memory Lane Android Studio, Java, Firebase

Reminiscence Therapy Android App Led a team of 4 to develop an Android app for reminiscence therapy, enhancing cognitive function for dementia patients

- Designed database structure and integrated Google Cloud TTS for dynamic content storage and accessibility
- Implemented multi-language support with Chinese transliteration, expanding app accessibility

Relevant Courses:



Education

2020 - 2024 O Simon Fraser University

Bachelor of Science, Major Computing Science

Specialisations:

Visual and Interactive Computing

Artificial Intelligence

- **Software Engineering**
- Biomedical Computing
- Advanced Methods in NLP
- Computational Photography
- Machine Learning
- Server-side Dev
- **Database Systems**
- Client-side Dev
- Computer Vision
- **UI** Design