

# Ton Nguyen

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## PROJECTS

### AI-Powered Financial Planner - Full Stack Phone App

Tech: React Native | Python | Flask | SQLite | OCR | REST API | OpenRouter (GPT)

- Built feature to **track and analyze** monthly income and expenses using Photos of receipt/pay slip from phone's camera or gallery.
- Designed **AI chatbot** using OpenRouter API to give personalized financial advice based on **real-time** user data.
- Created **visual reports** (bar/pie charts) to show expense trends by category and month.
- Developed offline-ready Flask **REST API** and stored financial data locally using SQLite.
- Added savings goal feature with **real-time tracking** of completion percentage using **sorting algorithms**.

### Full Stack Project Tracker (ike Monday.com)

Tech: C# | .NET | MySQL | React | TypeScript | JWT | SendGrid

- Built a **multi-user, team-based project collaboration app** using a **client-server architecture** with secure user authentication, task coordination, and in-app team messaging.
- Implemented Account Registration, Login, Password, Email Recovery with email verification using JWT and SendGrid to ensure the **security of the account**.
- Built **responsive frontend UI** with React & TypeScript, including React calendar and team messaging and email features including Outlook, Gmail and Yahoo Mail.

### Full Stack Online Store React App (Ton's Store)

Tech: React | JavaScript | Node.js | MongoDB Atlas

- Used React and Node.js to build a fully functional online store with MongoDB Atlas for **data persistence**.
- Developed **RESTful APIs** to handle checkout, product inventory, customer records, email receipts, and sales reports.
- Implemented **real address autofill** with HERE Maps API to assist user to find exact home address of customer when signing up new customer account.

### Student Study Organizer Android App at University of Manitoba

Tech: Java | Android Studio | HSQLDB

- Developed an Android app in Java with course scheduling, note-taking, reminders, GPA calculator, planner, and email **integration for multiple accounts**
- Integrated HSQLDB for efficient data storage and real-time updates for smoothness.

## WORK EXPERIENCE

### AI Code Trainer at Data Notation (Freelance)

Work From Home

Jan 2025- April 2025

- Refactored algorithms to reduce runtime by **~20%** using test-driven development.
- Implemented sample project features in Python and JavaScript based on prompt instructions.
- Ran **black-box and white-box tests**, including edge case handling to ensure testing.
- Evaluated and ranked outputs from AI language/code models to improve response quality.

## SKILLS

**Programming:** Java, JavaScript, Node.js, React.js, Typescript, C#, C, .NET, Python, SQL, MySQL, Flask, SQLite, Docker

**Technical skills:** Algorithms and Data Structures, Data Mining, Project planning, API implementation, GitHub, Terminal

**Platforms:** Linux, Windows and MacOS

## EDUCATION

University of Manitoba

Manitoba, Canada

**Bachelor of Science Major in Computer Science**

**Concentration:** Full Stack Web and Mobile App development

**Related Coursework:** Full Stack Web Development, Object-Oriented Programming, Discrete Mathematics, Artificial Intelligence reasonings, Data Mining, Data Structures and Algorithm, Project Management.