James Baghurst

Oxford
United Kingdom

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WORK EXPERIENCE

RemNote *Remote*
Founding Frontend and AI Engineer *Nov 2021 - Present*
- Responsible for the backend and prompt engineering for all of RemNote's AI projects
- Implemented advanced AI-enabled user interfaces such as RemNote's Flashcard Copilot
- Sole maintainer of RemNote's plugin system and API
- Code ownership over the flashcard system, the core of RemNote's product

OpenPipe *Remote*
AI Engineering Contractor *Nov 2023 - Present*
- Led development of OpenPipe's open source, LLM-powered YouTube recommendation system

Oxford Technology *Oxford, UK*
VC Summer Intern *Jun 2018 - Aug 2018*
- Built financial models in Excel to evaluate technology startups

PROJECTS

Flashcard Copilot *RemNote*
RemNote's Flashcard writing copilot for students *Jan 2023 - Present*
- Implemented Copilot-style completions and Grammarly-style correctness checks for flashcards
- Developed RemNote's LLM request backend
- Built extensive prompt evaluation suites to ensure high quality completions
- Minimized latency using streaming and partial JSON parsing

Open Recommender *Personal Project*
OpenPipe's open source, LLM-powered recommendation system for YouTube videos *Sep 2023 - Present*
- Built OpenPipe's YouTube video recommender system from scratch
- Added support for recommending videos based on a user's Twitter feed
- Wrote articles and filmed videos to promote the project

Open Fresh *Personal Project*
Open source, AI-enabled meal planning and shopping. *Sep 2023 - Present*
- Created an AI agent and UI to design personalized meal plans for users
- Used Selenium to autonomously add groceries to users' grocery website accounts
- Added support for smart ingredient substitution and recipe updates to handle missing ingredients

TypeScript Type Fixing Agent *Personal Project*
Open source type error fixing agent for 100k+ line TypeScript codebases *Jan 2023 - Present*
- Automated fixing type errors using an AI agent which makes commits to your GitHub repository
- Added summaries of error fixing attempts so failures still help human coders fix the error
- Utilized TypeScript's compiler API to retrieve type information and provide context to the agent

Contributions to Modelfusion *Personal Project*
Open source TypeScript library for building multi-modal AI applications *Nov 2023*
- Added support for SQLite vector search databases
- Added support for the OpenAI speech generation API

EDUCATION

University of Edinburgh *Edinburgh, UK*
BA (Hons) Chinese and German *Class of 2021*
- First class degree with distinction in spoken Chinese

EXTRA INFORMATION

Portfolio: https://bjsi.github.io/
Twitter: https://twitter.com/experilearning
GitHub: https://github.com/bjsi
LinkedIn: https://www.linkedin.com/in/james-b-792114a2/
Programming Languages: I am most familiar with TypeScript, React, Node.js and Python
Languages: English (native), Chinese (working proficiency)