ERIC ZHU

SOFTWARE ENGINEER

CONTACT INFORMATION

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EDUCATION

Bachelor of Computer Science (Artificial Intelligence)

Oct 2022

University of New South Wales, Sydney

Treasurer of PCSoc, Lead Data Scientist of Redback Racing and Dev Lead at Enactus

EXPERIENCE

National Australia Bank, Sydney | Software Engineer Intern

Jan 2022 - Feb 2023

- Developed a new feature in Java and Spring for the New Payments Platform with 2 people to enable inbound PayID payments for businesses and performed handover for feature deployment into production
- Resolved a Confluent Kafka connector bug in Java that resulted in a 3% of transactions failing to process and a bug that caused duplicate messages
- Automated testing procedures using Python and Jenkins, resulting in an 8% improvement in QA efficiency

University of Sydney, Sydney | Research Engineer

Nov 2021 - Apr 2022

- Implemented the FLOSS algorithm for detecting anomalous contextual changes in streaming sensor data
- Developed a website using Gatsby, Emotion and Contentful for the showcase of research results

MAPFRE Insurance, Shanghai | Software Engineer Intern

Nov 2019 - Feb 2020

 Created a new app using React and Node.js in a team of 4 that resulted in a 18% reduction in incident to response time due to an improved UX and routing algorithm for drivers

PROJECTS

NotesCast | notescast.com/

- A better way to discover insights from the best technology, wellbeing and business podcasts
- Search for content or access a shortcut in seconds with a global command palette using cmd+k
- Transcribes podcast RSS feeds using an Automatic Speech Recognition model
- Extractes key insights from transcripts using GPT-3.5T with Chain of Density prompting, and embedded into Pinecone with sliding window chunks using ada-002 and SPLADE-V2 for dense-sparse hybrid vector search
- Agent uses a HyDE model to modify the user's query for precise Retrieval Augmented Generation (RAG)

Website | github.com/ericfzhu/website | ericfzhu.com

• An exploration of creative design - Next.js, Tailwind, Framer Motion, and p5.js

SKILLS

Programming languages: Python | Java | Javascript | Typescript | C | SQL | React Native

Frameworks: PyTorch | Tensorflow | React | Next.js | Cypress | Spring | LangChain | Docker | OpenSearch | Firebase

Databases: PostgreSQL | Pinecone VectorDB | MySQL | RedisDB | MongoDB

CERTIFICATIONS

AWS Certified Cloud Practitioner, Microsoft Certified: Azure Al Fundamentals