DU XINYU

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EDUCATION BACKGROUND

Southeast University(SEU)   Sep. 2017 – 2021
Bachelor of Computer Science, Software Engineering   GPA: 3.64/4.0; 87.96/100
Courses Attended: Object-Oriented Programming: 95;   Principles of Compiler: 97;
Analysis and Design of Algorithm: 93;   Information Retrieval: 97;

Hong Kong University of Science and Technology(HKUST)   Sep. 2023 – 2024
MSc of Information Technology (Msc IT)   GPA: 3.78(23 Fall)
Courses Attended: Blockchain and Smart Contracts: A^+; Machine Learning: B^+;
Data Mining and Knowledge Discovery: B^+; Computer Network: A^+

WORK EXPERIENCE

Online Video Business Unit, Tencent Technology Co. LTD   Shenzhen
Client Development Engineer   Jul. 2020 – May. 2021(internship)
Client Development Engineer   Aug. 2021 – Aug. 2022(employee)
Technical knowledge involved: Java, Kotlin, Objective-C, Git.

- Completed daily iterative development on Android and iOS platforms, with one iteration per week, including code testing, bug fixing, and risk control measures.
- Maintained and expanded the business logic of user payment scenarios, optimizing the code structure with knowledge of Java design patterns and software engineering principles.
- Collaborated with other departments to complete cooperative projects, including working with the WeChat payment team to achieve new payment scenarios in Tencent Video and improve the user VIP conversion rate.
- Explored performance improvements in different user scenarios and refactored weak code structures to enhance overall system efficiency. Contributed to several optimization initiatives, including the complete refactor of the VIP homepage, restructuring of the video player, and VIP page loading optimization.
- Participated in technical reviews, requirements reviews, and code reviews for the project.

PROFESSIONAL EXPERIENCE

Crypto-Fintech Lab, HKUST   Hong Kong
Software Development Engineer   2023 - 2024
Technical knowledge involved: JavaScript, Node.js, Next.js, Solidity, Python, FastAPI, openAI API.

- Worked as a Full-Stack and Crypto Engineer at Cropo Network (startup). Conducted research on crypto technology and kept up-to-date with the latest events in the field.
- Developed and maintained the company's project homepage, while also engaging in daily development tasks.
- Participated in AI project development. Fine-tuned the Llama2 model to learn the coding ability and experimented with the latest techniques like Longlora to enhance performance.
- Implemented a recommendation chatbot based on a perfume dataset using OpenAI API and integrated it into a webpage. Utilized Embedding and GPT API to enable the GPT's question-answering capabilities based on provided knowledge base.
- Trained an AI writing assistant by fine-tuning the GPT3.5 model with model essays, enabling it to polish the input essays in a specific tone.

Multilingual KBQA model, SEU Knowledge Graph Lab Nanjing
Member Oct. 2018 – Oct. 2020
Technical knowledge involved: Python, Gurobi.
- Conducted research on the latest technology for multi-source Knowledge-Based Question Answering (KBQA) to explore its feasibility for use in multilingual KBQA.
- Implemented the pipeline model for multi-source KBQA and modified it to adapt to multilingual scenarios.
- Conducted experiments on the new model and compared it with state-of-the-art models, resulting in a research paper detailing the findings.

Android Application Design of Improving Concentration, SEU Nanjing
PM (project manager) Sep. 2019 – Oct. 2019
Technical knowledge involved: Java, Android, UML.
- Developed the overall project plan and contributed to the application design process.
- Managed the project's development progress and handled demand scheduling.
- Successfully completed the development of the main page and ensured seamless data transmission across different scenarios.

Segmentation of Brain Tissue Based on Neural Network, SEU Nanjing
Member Nov. 2018 – Nov. 2019
Technical knowledge involved: Python, Tenserflow.
- Conducted research on state-of-the-art technology in the medical field and identified the best approach for the project.
- Implemented and trained the U-net model to accurately identify brain tissue.

HONORS & AWARDS

Outstanding Individual of department(Tencent)	2021/12
Social Work Merit Award	2020/12
Provincial Third-prize Award in China Undergraduate Mathematical Contest in Modeling	2019/09
Outstanding Student Leader Prize of Southeast University	2019/11
Nord Logistics Scholarship of Southeast University	2019/06
Merit Student Prize of Southeast University	2018/12

SKILLS

Java, Python, Kotlin, JavaScript, Solidity, TypeScript, SQL, React, Node.js, Next.js
Basic knowledge of crypto, data-mining and mechine-learning.