Ho Kin Tat

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PERSONAL STATEMENT

As a budding software engineer, I'm deeply invested in AI and machine learning, backed by a diverse project portfolio in fintech and AI, encompassing both front-end and back-end development, as well as rigorous model testing for system robustness. My enthusiasm for computer science extends beyond academics; I'm driven to make a real-world impact in the tech industry, innovating practical solutions.

EXPERIENCE

Software Engineer @ *MVP Studio,*   *Jan 2024 - Present*
Company that develops commercial prototypes
Key Achievement: Spearheaded the 'Memory Keeper' mobile app project, successfully integrating React.js, Firebase, and MongoDB to enhance user experience and streamline data management, contributing to the agile delivery of this market-ready solution.
Tech Skills: React.js, Firebase, MongoDB, Django REST Framework
- Develop Minimal Viable Products (MVPs) such as mobile applications, focusing on creating functional, market-ready prototypes.
- Constructed a dashboard interface and reusable UI components in React using material UI
- **Boosted screen navigation efficiency by 15%** through UI/UX optimizations, enhancing user experience.

AI Developer Intern @ *Amaris.AI Pte Ltd,*   *Dec 2023 - Jan 2024*
Startup that develops AI solutions
Key Achievement: Enhanced a speech-to-text AI system using Python, Hugging Face Transformers, and PyTorch, achieving reduced model size and faster inference with minimal accuracy loss through quantization.
Tech Skills: Python, Hugging Face Transformers, PyTorch
- Conducted practical testing of emerging AI models, with an emphasis on their integration into user-focused products, including a **speech-to-text system with speaker diarization capabilities**.
- Collaborated with Data Scientists in the **implementation of advanced AI frameworks** such as Hugging Face Transformers and PyTorch.
- Enhanced AI model performance and efficiency through optimization techniques such as quantization, **reducing model size by 30%** and **speeding up inference by 25%** with minimal impact on accuracy.

Software Engineer @ *Any Technology Pte Ltd,*   *May 2023 - Aug 2023*
Fintech startup focusing on transaction processing for retail financial services
Key Achievement: Developed a key data routing algorithm, pivotal in securing a million-dollar Indonesian bank contract, demonstrating expertise in data management and strategic problem-solving.
Tech Skills: Java, Python, React.js
- **API data extraction** by constructing an algorithm to help **improve complex data processes by 50%**
- Handled **critical data using encryption**, which helped **secure a major million-dollar contract deal** with an Indonesian bank
- Played a key role in maintaining and enhancing the company's website using React, leading to a significant **30% increase in website traffic and user engagement.**

PROJECTS

GymBuddy @ *Orbital NUS 2023* **|**
- Mobile application for gym goers to create and track their workouts using **OpenAI's GPT API**
- Implemented GitHub OAuth to get data from user's repositories and visualized GitHub data to show collaboration
- Designed UI/UX wired frames using Figma

Offun @ *Lifehack NUS'23*

- Developed a **Facebook-inspired web application** for office personnel to post and communicate for a hackathon

Hangar Telegram Bot @ *NUS Enterprise* |
- Developing a hotdesking telegram bot for NUS enterprise

SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS
Frameworks: React, Node.js
Developer Tools: Vim, Google Cloud Platform, VS Code, Jupyter Notebook, PyCharm, IntelliJ
Libraries: Pandas, NumPy, PyTorch, Matplotlib
Certifications: Orbital - Apollo, Udemy - Python Zero to Hero

EDUCATION

National University of Singapore
Bachelor of Computing (Honors) in Computer Science, Graduating in May 2026