

JOVAN YAP

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EDUCATION

University of California, Berkeley <i>Master of Engineering in Computer Science and Electrical Engineering</i> Coursework: Data Structures & Algorithms, Software Engineering, Computer Networks, Distributed Systems, OSCP	Berkeley, CA May 2026
University of Michigan, Ann Arbor – Shanghai Jiao tong University <i>Bachelor of Science and Engineering in Computer Science (Double-degree program) GPA: 3.9/4.0</i> Coursework: Fullstack Web System, Computer Vision, Machine Learning, Operating System, Agentic AI Systems	Ann Arbor, MI May 2025

WORK EXPERIENCE

Bytedance (Global Payments Team) <i>Incoming AI Software Engineer Intern</i> <ul style="list-style-type: none">Engineer scalable ML pipelines integrating LLMs and GNNs for real-time financial risk detection and compliance.Develop A3C reinforcement learning model to detect financial compliance risks across e-commerce platforms.	Singapore May 2025 – Aug 2025
Govtech (Video Analytics Team) <i>AI Software Engineer Intern</i> <ul style="list-style-type: none">Built a multimodal RAG misinformation detector with 91% accuracy using VLMs like Llava and Idefices2.Developed a large-scale AI Video & Face Indexing Recommendation System with 30k users with NextJS on AWS.Built the backend architecture for a media indexing system with DynamoDB, API gateway, Rekognition, Lambda FnsDeveloped Web Crawlers to curate News articles dataset and to streamline fake news detection workflows.	Singapore May 2024 – Aug 2024
Land Transport Authority <i>Machine Learning Engineer Intern</i> <ul style="list-style-type: none">Designed the PPO reinforcement learning distributed training pipeline using Pytorch AWS to train the Meta Llama2.Developed multithreading Meta llama2 training pipeline and studied the deployment of chatbots using semantic search.	Singapore Jun 2023 - Aug 2023
Medios (MedTech Startup) <i>Machine Learning Engineer Intern</i> <ul style="list-style-type: none">Performed image and data processing and annotation and trained a deep learning model with TensorFlow on AzureML.Deployed an eye image quality classifier with a remarkable 93% accuracy for clinical trials to filter clear images.	Singapore Dec 2022 - May 2023

PROJECT & RESEARCH EXPERIENCE

University of Michigan Human-AI Lab <i>AI Software Engineer</i> <ul style="list-style-type: none">Developed WorldScribe, integrating memory for context-aware descriptions, enhancing accessibility for blind users.Designed an AI agent with dynamic memory system, reducing repetitive descriptions and enabling real-time interactions.	Ann Arbor, MI Current
Autonomous Robotics Vehicles Organization (Computer Vision Team) <i>Machine Learning Engineer</i> <ul style="list-style-type: none">Designed the AI deep learning algorithms to train the YOLO instance segmentation model and deployed it on ROS.Deployed model on the autonomous vehicles with sensors module with GPS, Lidar, Camera, and WiFi.	Ann Arbor, MI Jan 2024 - May 2024
University of Michigan EECS485 Web Systems <i>Fullstack Software Engineer</i> <ul style="list-style-type: none">Developed an Instagram-like software AWS, React front-end, Flask back-end and relational database with REST API.Designed a MapReduce distributed system with network programming TCP using Hadoop and multithreading.Engineered a search engine with dynamic information retrieval algorithms like tf-idf text analysis and link analysis.	Ann Arbor, MI Jan 2024 – May 2024

TECHNICAL SKILLS

Language/Database: Python, C++/C, HTML/CSS, JavaScript, TypeScript, SQL, Swift, Java, PostgreSQL, Go
Frameworks & Libraries: CUDA, ReactJS, VueJS, NextJS, Pytorch, TensorFlow, Langchain, Chroma, Keras, Hadoop
Platforms & Tools: AWS (EC2, Sagemaker), AzureML, RESTAPI, Docker, Git, DevOps, Terraform, Figma