EDWARD YOSE

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ABOUT ME

AI Engineer with a Master's degree in Computer Science and more than a year of hands-on industry experience. Skilled in developing, deploying, scaling, and optimizing AI-driven solutions, generative models, NLP, and large-scale data systems with the most recent state-of-the-art implementations. Demonstrated ability to deliver results independently and as part of cross-functional teams with data scientists and data engineers, with experience spanning research, engineering, and operations. Continuously learning and adapting to advances in AI, big data, agentic AI, sophisticated crawling, and software engineering. Motivated to solve complex challenges and drive innovation in artificial intelligence and data-centric products.

EDUCATION

Bina Nusantara University **September 2022 – May 2024**
Master of Computer Science — Current GPA: 3.87 of 4.00 *West Jakarta, Jakarta*

Bina Nusantara University **September 2019 – September 2022**
Bachelor of Computer Science — GPA: 3.57 of 4.00 *West Jakarta, Jakarta*

RELEVANT COURSEWORK

- Artificial Intelligence
- Large Language Models
- Natural Language Processing
- Machine Learning
- Deep Learning
- Data Engineering
- Big Data Analytics
- Distributed Systems
- Asynchronous Programming
- Database Management Systems
- Data Visualization
- Information Retrieval
- Model Context Protocol
- Data Caching
- AI Data Crawling

EXPERIENCE

PT eBDesk Teknologi **August 2024 – Present**
AI Engineer *South Tangerang, Banten*

- Led and deployed dynamic and configurable multiple AI agents with various state-of-the-art models and delivered a Public Complaint or Aduan Masyakarat (AduMas) AI-backbone dashboard engine used by 20+ government clients.
- Achieved up to 200% improvement in end-to-end inference efficiency by optimizing a robust and efficient multi–AI-agent inference engine deployed in a Kubernetes environment.
- Led the revamp and AI integration of the internal web search platform (*eBSearch*), achieving 250% faster performance and higher accuracy with generative AI models.
- Collaborated on Project Stellar, optimizing the company's largest project initiative for stability, scalability, and real-time data flows.
- Conducted and led research on advanced AI topics, including OpenManus (Automation), Azure-Phoenix (Evaluation), and contributed to Deepseek (LLM) and Letta (MemGPT) Deployment.
- Built and maintained robust analytics and ingestion pipelines using Kafka, Elasticsearch, Memgraph, and PostgreSQL, improving data quality and system reliability.
- Ensured compute efficiency and asynchronous pipeline optimization across projects.

PT Saku Teknologi Solusindo **August 2021 - August 2022**
IT Solution – Entrepreneur *South Jakarta, Jakarta*

- Collaborated with stakeholders and developers to gather requirements and establish project objectives and deliverables.
- Led and managed end-to-end project life cycles, from stakeholder engagement and decision-making to successful development and deployment across Jabodetabek and Medan area on 40 outlets provided by the end product.
- Directly participated in Android app development and application design with native Java and Figma, contributing to the technical aspects of the project based on the importance of needs among the clients and their business values.
- Develop numerous features for user requirements including the business intelligence dashboard, resulting in improved productivity by 25% by developing dedicated features.

PROJECTS

Low-Resolution Face Recognition Attendance System | *Python, C++, TensorFlow, TensorRT* **March 2023**

- Developed an automatic attendance system using Python with enhanced input images using GAN technology.
- Gather data, pre-process, fine-tune an existing pre-trained model, and evaluate the model for custom identification.
- Implemented Numerous Deployment models for Desktop and IoT devices like TensorRT and TensorFlow Lite Model.
- Implemented quantization optimizations for IoT devices to minimize inference time with a trade-off of slight accuracy.

Masked Face Recognition Attendance System | *Python, TensorFlow, Qt* **November 2022**

- Developed an automatic attendance system using Python with mask and non-mask classification with identity recognition.
- Gather data, pre-process, fine-tune an existing pre-trained model, and evaluate the model for custom identification.
- Implemented numerous deployment models for Desktop and IoT devices with TensorFlow Lite Model.
- Implemented Qt as a Visual Graphical User Interface based on Python and C++ programming languages.

SOFT SKILLS

- Problem Solving
- Critical Thinking
- Collaboration
- Adaptability
- Initiative
- Analytical Thinking
- Continuous Learning
- Time Management
- Code Quality & Standardization

TECHNICAL SKILLS

Programming Languages: Python, SQL, Cypher, PySpark, JavaScript
AI/ML Frameworks: PyTorch, TensorFlow, HuggingFace, TensorRT
Data Engineering: Redis, Kafka, Elasticsearch, PostgreSQL, Memgraph, Nebula,
DevOps/Tools: Docker, Kubernetes, Jenkins, Git, CI/CD
Cloud Platforms: Google Cloud Platform (GCP), Azure, Alibaba cloud, AWS
Other Tools: OpenCV, NLTK, VSCode, Pydantic, OpenManus, MCP, ReAct, SearXNG, Puppeteer, Trafilatura, Beautifulsoup