Wilson Jusuf

Hello! I'm Wilson, and I'm passionate about technology and change. I'm well versed in enterprise-grade full-stack engineering, and am also exploring Artificial Intelligence and Machine Learning. By combining these two abilities, I hope to learn how to identify and solve problems in industries by devising an ML/data analytics-powered product, and realizing this by architecting software from front to back. I am driven, and have delivered major improvements to companies such as frontend migration in tokopedia, machine learning in Gojek & Textpert, as well as architecting full-stack personal projects end-to-end.

in www.linkedin.com/in/wilsonjusuf

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Education

University of California, Los Angeles
B.S. Computer Science

Los Angeles California
Enrolled
July 2021

- GPA: 3.80
- Joined UCLA's ACM AI group, where we learn collaboratively about Machine Learning and read research papers on the subject.
- Regularly attend Hackathon events in California such as HackUCI, LAHacks, creating prototypes for new ideas

British School Jakarta
High School

Tangerang Banten
Graduated
June 2017

- Co-founded Cyber-shanty, a digital literacy initiative that teaches kids living in impoverished areas to use computers to have fun, study, contact each other, and to empower their lives.
- Graduated with the highest result in the cohort - achieved score 43/45 in the IB Diploma.
- Got highest achievement awards for Physics, Computer Science and Japanese.

Professional Skills

Skill	Rating
Problem Solving & Computational Thinking	★★★★★
Teamwork and Collaboration	★★★★☆
Microsoft Suite (Word, Excel, Powerpoint)	★★★★☆
OOP, Data structures & Algorithms	★★★★★
Machine Learning in Python, Matlab/Octave	★★★★☆
UNIX & Linux (Ubuntu System Administration & Shell Scripting)	★★★★☆
C++ & C, Java	★★★★★
Databases - PostgreSQL, Redis, MongoDB	★★★★☆
Real-Time technologies (websockets e.g. socket.io)	★★★★☆
Mobile Development (native android, React Native)	★★★☆☆
Frontend Web Development (in React.js, jquery, webpack, HTML, CSS ,JS)	★★★★☆
Backend Web development in Node.js and Golang	★★★★☆
Microservices & Enterprise Architecture	★★★☆☆

Projects and Interests

I enjoy ideating and creating programs. Sample projects include:

1. Traffic Flow Management Algorithm to alleviate Jakarta Traffic, which I talked about in a Jakarta TEDx event and presented to the Jakarta Governor.
2. Android Application that teaches the Japanese regional Kansai Dialect.
3. tepuknyamuk.com, a real-time multiplayer indonesian card game I fully implemented and architected.
4. wizdget Wand - a toy IoT Sensortile wand that detects different spell incantations by different motions.

My personal interests include:

- Artificial Intelligence and Machine Learning. I like to learn ML toolkits such as Keras.
- Learning how to architect scalable, resilient full-stack solutions - from frontend, to backend and devops.
- Learning the philosophy of UNIX and learn how to be fully in control of computation. I love learning tools and 'hacks' to automate activities.
- Playing music. I love to develop my own ideas, compose, perform and improvise using the saxophone, drums, flute and piano.

Languages

English	Native
Indonesian	Native
Japanese	Fluent
German	Proficient
Chinese	Conversational

Work Experience

tokopedia.com
Fullstack Software Engineering intern

Jakarta Jakarta
June 2018 - September 2018

- Interned in technology division of Tokopedia.com, Indonesia's largest e-commerce platform with 70+ million users.
- Initiated entire front-end migration project for Tokopedia's chat service to ES6 React & Webpack from ageing codebase.
- Created the entire project infrastructure and strategized deployment with devops.
- Implemented a new chat-widget feature on migration project in the tokopedia.com homepage, allowing users to chat with merchants easily.
- Achieved 70KB size reduction for production assets, and updated the frontend stack with modern, optimized tools. Eased the path for future frontend development with an easier workflow and coding style.

Textpert inc.
Machine Learning Intern

Los Angeles California
January 2018 - April 2018

- worked in the team that produces an automated mental health screening system called AIME (Artificial Intelligence Mental Evaluation).
- Responsible for crafting and fine-tuning Audio Neural Networks in AIME to analyze mental health patients' vocal expression.
- Created Proof Of Concept neural network that classified female /male voices with 90% accuracy just from raw audio data.
- Integrated audio neural networks with other networks such as text (NLP) and video processing to ultimately form AIME's ML engine.

Gojek Indonesia
Machine Learning & NLP Engineer Intern

South Jakarta Jakarta
July 2017 - September 2017

- Worked in the social media analytics team of unicorn Indonesian startup Gojek.
- Designed a deep learning model to conduct sentiment analysis of feedback comments/reviews to help improve customer service.
- Utilized LSTM cells, standard ANNs, word2vec embedding, and creative data visualization with D3.js.
- Achieved an accuracy score of 78% for LSTM sentiment analysis for Indonesian.

Pt. Intelligent System Solutions
Android Mobile Developer

West Jakarta Jakarta
June 2016 - July 2016

- Designed an android application to predict bank loans and interests for Bank Mandiri, a major Indonesian bank.

wilsonjusuf1998@gmail.com (323) 504-4924