Wilson Jusuf

Full-stack Engineer & Data Science Enthusiast

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EDUCATION

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

CGPA: 3.80/4.00   Expected graduation: Jun. 2021
College Courses: Data Structures & Algorithms, Computer Organization, Software Constr. Lab, Operating Systems
Dean's list: Spring 2018

British School Jakarta (High School Diploma)   Jun. 2017
IB Diploma 43/45 - highest out of 82 student cohort
Attainment awards for Physics, Computer Science & Japanese
Co-founded Cyber-shanty, a digital literacy initiative that teaches kids living in impoverished areas to use computers to study, contact each other, have fun and to empower their lives.

WORK EXPERIENCE

Tokopedia.com - Fullstack Engineering Intern   Jakarta, Indonesia   Jun. - Sept. 2018
- Initiated front-end migration project for chat service of Tokopedia, indonesia's biggest e-commerce marketplace, to React & Webpack from old codebase.
- Created the entire project infrastructure, including creating a go backend server and strategizing deployment with devops.
- Implemented a new migrated homepage chat feature, which allows users to chat with merchants easily.
- Achieved 70 KB size reduction for production assets, and updated front-end stack with optimized tools.
- Eased the path for future frontend development with an easier workflow and coding style.

Textpert inc. - Machine Learning Intern   Los Angeles, CA   Jan. - April. 2018
- worked on AIME (Artificial Intelligence Mental Evaluation) - a 10 minute mental-health screening system.
- Crafted and fine-tuned Audio Neural Networks to analyze mental health patients' vocal expression, achieving 90% accuracy just from raw audio data in Proof of Concept network.
- Integrated audio NNs with text and video NNs to ultimately form AIME's ML engine.

PT. Gojek Indonesia - Machine Learning Intern   Jakarta, Indonesia   Jul. - Sept. 2017
- Worked in the social media analytics team of unicorn Indonesian on-demand/logistics startup Gojek.
- Designed a deep learning model to conduct sentiment analysis of feedback comments to 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 in Indonesian.

PT. Intelligent System Solutions - Android Developer   Jakarta, Indonesia   Jun. - Jul. 2016
- Designed android application to predict loans and interests for Bank Mandiri, a major indonesian bank.

PROJECTS

Traffic Flow Management Algorithm
- Built a solution to alleviate Jakarta Traffic, which I talked about in a TEDx event and presented to the Jakarta Governor.

Kansaiben Android App
- Android mobile app that teaches the Japanese kansai dialect. Used N-grams to suggest vocab in question generation.

tepuknyamuk.com (live)
- Real-time multiplayer indonesian card game I fully implemented and architected front-end to back-end. Built with React, Node, Redis, postgresql, websockets, nginx and hosted on DigitalOcean. Used Datadog for game monitoring.

Wizdget Wand
- Toy IoT Sensortile wand that detects various Harry Potter spell incantations. Created real-time visualization using node & JS.

SKILLS

General Languages : Go, C, C++, Javascript, Bash, Java, Python
Frontend technologies: HTML, (S)CSS, JS, Jquery, React.js, Webpack, Redux, Android, React Native, Jest, Mocha
Backend technologies: Node, Go, PostgreSQL, MongoDB, Docker, Redis, Consul, Nginx, Datadog (monitoring), Kafka
OS, Infra & Cloud: Linux, Ubuntu System Administration, AWS, DigitalOcean
Machine Learning: Keras, TFLearn, Linear Regression, Classification, NNs, RNNs, LSTMs, word2vec
Languages: English, Indonesian, Japanese, German, Chinese