

# Wilson Jusuf

Hello! I'm Wilson, a sophomore studying computer science at UCLA. I'm passionate about technology and computers, and I'm well versed in enterprise-grade full-stack engineering (Front-End, Back-End, Sysadmin/DevOps) in various technologies such as React.js, goLang, and node.js. I am also exploring Artificial Intelligence and Machine Learning to enhance my projects.

I am interested in pursuing a summer internship in 2019 relating to software engineering and technology to gain valuable experience. I am motivated to take on new projects and work in a team, as I am experienced in and enjoy devising computational solutions to tackle real-world problems.

## Education

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

**British School Jakarta**  
High School  
Tangerang Banten  
Graduated June 2017

- 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.

## Projects, Interests and Hobbies

I enjoy creating programs, code, and ideas for fun. Sample projects include (others can be found in my Github account):

- Traffic Flow Management Algorithm to try to alleviate Jakarta Traffic, which I talked about in my school's TEDx event and presented to the Jakarta Governor,
- Android Application that teaches the Japanese regional Kansai Dialect,
- tebuknyamuk.com, an indonesian card game I fully architected from frontend, backend to deployment in the cloud. It is a real time multiplayer card game.
- Whatsappbot - a whatsapp chat bot used to automate repetitive tasks in ubuntu systems.
- wizdget Wand - a toy IoT Sensortile wand that can detect spell incantations by motion, and play back sounds and animations in a web UI real-time.

My interests include:

- Artificial Intelligence and Machine Learning. I like to learn ML toolkits such as Keras, as well as hacking interesting kaggle datasets.
- Learning the philosophy of UNIX and try to learn how to be fully in control of computation. I love learning tools, commands, or 'hacks' to automate activities.
- Playing music. I like to develop my own ideas, compose, perform and improvise using the saxophone, drums, and piano.

## Professional Skills

Problem Solving & Computational Thinking:	★ ★ ★ ★ ★
Teamwork and Collaboration:	★ ★ ★ ★ ★
Microsoft Suite (Word, Excel, Access, Powerpoint):	★ ★ ★ ★ ★
OOP, Data structures & Algorithms:	★ ★ ★ ★ ★
Machine Learning in Python, Matlab/Octave:	★ ★ ★ ★ ★
UNIX & Linux (Ubuntu System Administration):	★ ★ ★ ★ ★
Bash Shell Scripting:	★ ★ ★ ★ ★
C++ & C, Java:	★ ★ ★ ★ ★
SQL - postgresQL:	★ ★ ★ ★ ★
Real-Time technologies (websockets e.g. socket.io):	★ ★ ★ ★ ★
NoSQL databases -MongoDB, Redis:	★ ★ ★ ★ ★
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:	★ ★ ★ ★ ★
Service Discovery - consul:	★ ★ ★ ★ ★
Microservices:	★ ★ ★ ★ ★

## Languages

English:	★ ★ ★ ★ ★
Indonesian:	★ ★ ★ ★ ★
Japanese:	★ ★ ★ ★ ★
German:	★ ★ ★ ★ ★
Chinese:	★ ★ ★ ★ ★

## Work Experience

**tokopedia.com**  
Fullstack Software  
Engineering intern  
Jakarta Jakarta  
June 2018 - September 2018

- Initiated front-end migration project for Tokopedia's chat service to React ES6 & Webpack from outdated PERL and ES5 React codebase.
- Created the entire project infrastructure: webpack build process, goLang frontend-server that serves the content, strategizing staging & production deployment with devops engineers, and feature testing.
- Implemented a new chat-widget feature in the tokopedia.com homepage, which is built on this migration project. This allows the users to chat with merchants easily.
- Achieved 60KB gzipped size reduction for production assets, and updated the severely outdated frontend stack with more modern, optimized tools. This project eased the path for future frontend development in topchat 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.
- Long-term goal is to create "Artificial Intuition" for AI to solve human problems.

**Gojek Indonesia**  
Machine Learning & NLP  
Engineer Intern  
South Jakarta Jakarta  
July 2017 - September 2017

- Worked in the social media analytics team of leading 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 Software 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.



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