

Jesslyn Nathania

SOFTWARE ENGINEER · AI ENGINEER

Shenzhen, China | Jakarta, Indonesia

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“Thrilled to turn the page and discover what lies ahead!”

Summary

Trilingual. Polyglot coder. A nerd that is passionate about software and AI engineering. Over 5+ years of professional experience in the tech industry with accumulated expertise in backend development, infrastructure automation, and AI algorithms through diverse roles ranging from internships to full-time positions. Continuously eager to discover what the future holds.

Education

Tsinghua University—Shenzhen International Graduate School

Shenzhen, China

M.ENG. IN ELECTRONIC INFORMATION (ARTIFICIAL INTELLIGENCE)

Sept. 2022 - Nov. 2025

- Thesis: A Study on Monocular-BEV Fusion and Foundational Models for Autonomous Driving
- Advisor: Prof. Zhiheng Li
- Relevant Coursework: Introduction to Transfer Learning, Machine Learning, Distributed Machine Learning
- Grade: 3.81 / 4.00 GPA

Bandung Institute of Technology

Bandung, Indonesia

B.S. IN INFORMATICS/COMPUTER SCIENCE

Aug. 2017 - Jul. 2021

- Final year project: Deep Learning Based Spatiotemporal Human Action Recognition and Localization System
- Advisor: Prof. Nugraha Priya Utama
- Relevant Coursework: App Development, Machine Learning, Computer Graphics, Operating System
- Grade: 3.51 / 4.00 GPA

Work Experience

Libpet

Shenzhen, China

SOFTWARE ENGINEER

Aug. 2025 - Present

- Prototyping an autonomous robot-chair with Autoware, ROS 2, and STM32. This product will be deployed in HK airport.

Streamax Technology Co., Ltd.

Shenzhen, China

AI ALGORITHM INTERN

Jan. 2024 - Aug. 2024

- Under Pengyi Gao's supervision, I implemented a program based on papers to be adapted to real-life datasets and industrial needs.
- Worked on Monoflex 3D object detection, semantic segmentation
- Tech stacks: PyTorch, Pytorch Lightning, OpenMMLab's mmdetection3d

Xendit

Jakarta, Indonesia

SOFTWARE ENGINEER

Sept. 2021 - Dec. 2023

- Built and maintained an Escrow system that serves millions of users.
- Proposed integrated API testing and ensured smooth delivery in the team. Increase the sensitivity from automated monitoring alerts by 20%. Refactored service code to increase maintainability. Reduced code length by 65%
- Tech stacks: AWS(SNS/SQS, ECR, etc.), ExpressJS, Kubernetes, Kafka, RabbitMQ, Splunk, Datadog, Sentry

Mekari

Jakarta, Indonesia

ANDROID DEVELOPER INTERN

Jan. 2021 - Jun. 2021

- Joined Talenta Mekari Mobile Team. Develop some features in Talenta App, together with unit test, with measuring coverage using JaCoCo Sonarqube: <https://play.google.com/store/apps/details?id=co.talenta>. Learned best practices and adopted MVP model in code.
- Tech stacks: Android Studio(Kotlin, Retrofit, Dagger Injection, View Binding, etc.), Bitbucket, Jira, Firebase

GDP Labs

Bandung, Indonesia

SOFTWARE ENGINEER INTERN

May. 2019 - Aug. 2019

- Worked with KaskusTV Team. Experimented project: auto captions/subtitles on video uploaded using Google API Speech to Text.
- Tech stacks learnt: REST, Java Spring Framework, Lombok, Google Cloud API and client libraries, Google Cloud Function, Python Flask.
- Read Clean Code by Robert C. Martin and developed program in best practice standard.

Publication

PUBLISHED

Nathanian, J., Liu, Q., Li, Z., Liu, L., & Gao, Y. (2025). BEVCorner: Enhancing Bird's-Eye View Object Detection with Monocular Features via Depth Fusion. *Applied Sciences*, 15(7), 3896. MDPI.

Nathanian, J., & Utama, N. P. (2021). Deep learning based spatiotemporal human action recognition and localization system. In *2021 8th international conference on advanced informatics: Concepts, theory and applications (icaicta)*(pp. 1–6).

Awards

ASEAN-China Young Leaders Scholarship (ACYLS) 2022/2023

Shenzhen, China

AWARDED SCHOLAR OF 3-YEAR MASTER'S DEGREE PROGRAM

Sept. 2022

Chosen as the top 50 postgraduate students from thousands of applicants to receive a full tuition scholarship for 3-year master's program.

Computer Science Leaders Scholarship Program

Bandung, Indonesia

AWARDED SCHOLAR OF 4-YEAR UNDERGRADUATE STUDY

Nov. 2017

- Chosen as the top 10 students in the 2017 batch informatics of both the most prestigious universities in Indonesia: Bandung Institute of Technology and University of Indonesia; to receive a full tuition scholarship of 4 years.
- Learnt leadership, expanded network, and improved problem-solving skills through various mentorship and biweekly.
- Met CEO, CTO, head of engineering, leaders in the tech industry, and learn from their experiences.
- worked together with scholars&associates and organized more than 20 mentoring and biweekly programs (once a month)

Teaching Experience

Bandung Institute of Technology

Bandung, Indonesia

GRAPHICS AND ARTIFICIAL INTELLIGENCE LABORATORY ASSISTANT

Aug. 2019 - Jul. 2021

- 2019: Logical Computational Course Lab Assistant. Assist sophomores in Lab associated with Prolog(logic programming language), gives assignments to them, and check their weekly progress.
- 2020: AI Course Lab Assistant Coordinator. Coordinate with 5 other assistants, brainstorm ideas to assign big projects to juniors, related to CLIPS language, and define evaluation criteria based on ABET values.
- 2021: Graphical Computational Lab Assistant. Assist juniors with OpenGL

Comlabs-USDI Bandung Institute of Technology

Bandung, Indonesia

TEACHING ASSISTANT

Sept. 2018 - Sept. 2019

- Giving assistance and lectures to ITB freshmen on the introduction to programming and algorithms using Microsoft Excel, Jupyter Notebook, Python, Pandas and C++.

Organization

Google Developer Student Club chapter Bandung Institute of Technology

Bandung, Indonesia

CLUB LEADER

Aug. 2020 - June 2021

- Passed the interview selection and was selected to be the Developer Student Club Lead 2020/2021 chapter Bandung Institute of Technology.
- Developer Student Clubs are university-based community groups for students interested in Google developer technologies. The lead is mentored by Google Community Manager and is expected to form a group consisting of core teams and members.
- As the lead of DSC ITB 20/21 (the third batch), I built a core team of 9 members and engaged 136 students from Bandung Institute of Technology who are passionate about Google Cloud Platform and developer technologies. I collaborated closely with the core team to organize over 10 hands-on e-workshops and webinars on topics like Tensorflow, Android, Firebase, Teambuilding skills, and Women in Tech. Additionally, I partnered with more than 5 organizations to promote education and technology awareness and worked with DSC leads from other universities locally and internationally to host tech-focused webinars.
- Check out here: <https://dsc.community.dev/institut-teknologi-bandung/>

Skills

AI	Pytorch, mmdetection3d, Pytorch Lightning
DevOps	AWS, Docker, Kubernetes, Terraform, Jenkins, Kafka, RabbitMQ, Splunk, Datadog, Sentry, PagerDuty
Database	MySQL, MongoDB, PostgreSQL, MariaDB, Redis, JDBC
Back-end	Django, Flask, Laravel, Express, REST API
Front-end	Redux, React, Next.js, SASS, React Native, Android Studio
Architecture	Clean code, MVC, MVP, Microservices,DDD, TDD
Programming	Node.js, Python, JAVA, Kotlin, LaTeX
Hobbies	Teamwork, Graphic Design (Adobe Photoshop), Video Editing (Adobe Premiere, Adobe After Effect)
Languages	Indonesian(Native), English(TOEFL iBT(94/120)), Chinese(HSK 5)