

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. Software/AI enthusiast with 5+ years of experience in the tech industry. Deeply interested in computer vision and robotics, and always curious about what the future holds. I am seeking PhD opportunities to start a research journey in **embodied AI**, exploring how robots can bring more fun and surprise to people's lives through the magic in their decision-making.

Education

Tsinghua University—Shenzhen International Graduate School

Shenzhen, China

M.ENG. IN ELECTRONIC INFORMATION (ARTIFICIAL INTELLIGENCE)

Sept. 2022 - June. 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

- We are building a world-class, Uber-like mobility robotic chair for use in airports!
- Prototyping an autonomous robot-chair with Autoware, ROS 2, and STM32. This product will be deployed at HK airport.
- Handled a wide range of tasks as needed.

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
- A paper *"BEVCorner: Enhancing Bird's-Eye View Object Detection with Monocular Features via Depth Fusion"* was accepted by Applied Sciences, 2025
- Tech stacks: PyTorch, Pytorch Lightning, OpenMMLab's mmdetection3d

Xendit

SOFTWARE ENGINEER

Jakarta, Indonesia

Sept. 2021 - Dec. 2023

- Built and maintained an Escrow system that serves millions of users.
- Tech stacks: AWS(SNS/SQS, ECR, etc.), ExpressJS, Kubernetes, Kafka, RabbitMQ, Splunk, Datadog, Sentry

Mekari

ANDROID DEVELOPER INTERN

Jakarta, Indonesia

Jan. 2021 - Jun. 2021

- Joined Talenta Mekari Mobile Team. Develop some features in **Talenta App**.
- Tech stacks: Android Studio(Kotlin, Retrofit, Dagger Injection, View Binding, etc.), Bitbucket, Jira, Firebase

GDP Labs

SOFTWARE ENGINEER INTERN

Bandung, Indonesia

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 (top 1%)

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 (top 1%)

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.

Teaching Experience

Bandung Institute of Technology

Bandung, Indonesia

GRAPHICS AND ARTIFICIAL INTELLIGENCE LABORATORY ASSISTANT

Aug. 2019 - Jul. 2021

- 2019: Logical Computational Course Lab Assistant
- 2020: AI Course Lab Assistant Coordinator
- 2021: Graphical Computational Lab Assistant

Comlabs-USDI Bandung Institute of Technology

Bandung, Indonesia

TEACHING ASSISTANT

Sept. 2018 - Sept. 2019

- Introduction to programming and algorithms using Microsoft Excel, Jupyter Notebook, Python, Pandas and C++

Community Engagement

Google Developer Student Club chapter Bandung Institute of Technology

Bandung, Indonesia

CLUB LEADER

Aug. 2020 - June 2021

- selected to be the Developer Student Club Lead 2020/2021.
- I led a 9-member core team at Bandung Institute of Technology, engaging 136 students through 10+ hands-on e-workshops and webinars on Google Cloud, TensorFlow, Android, Firebase, teambuilding, and Women in Tech. I also partnered with 5+ organizations and DSC leads from universities locally and internationally to promote tech education and co-host tech-focused webinars.

Sariputra ITB

Bandung, Indonesia

VOLUNTEERED MENTOR AND MATH TEACHER

Aug. 2017 - June 2019

- Volunteered as a Math teacher with Sariputra ITB, a non-profit supporting high school students from low-income families.
- Helped students prepare for the highly competitive, once-in-a-lifetime national university entrance examination.

Skills

Hobbies Zumba, Yoga, Reading

Languages Indonesian(Native), English(TOEFL iBT(94/120)), Chinese(HSK 5)

郑绣龄

软件/机器人开发工程师 · AI 算法工程师

中国深圳 / 印度尼西亚雅加达

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个人简介

精通三语、擅长多语言编程，拥有 5+ 年软件与 AI 行业经验。对计算机视觉与机器人充满热情，持续好奇未来技术走向。正在寻求 具身智能方向的机会，希望探索机器人在决策中创造乐趣与惊喜的可能性。

教育经历

清华大学深圳国际研究生院

中国深圳

电子与信息工程硕士（人工智能方向）

2022 年 9 月 - 2025 年 6 月

- 毕业论文：基于单目-BEV 融合与大模型的自动驾驶研究
- 导师：李志恒教授
- 相关课程：迁移学习概论、机器学习、分布式机器学习
- 成绩：GPA 3.81 / 4.00

万隆理工学院

印度尼西亚万隆

信息学 / 计算机科学学士

2017 年 8 月 - 2021 年 7 月

- 毕业论文：基于深度学习的时空人类动作识别与定位系统
- 导师：Nugraha Priya Utama 教授
- 相关课程：应用开发、机器学习、计算机图形学、操作系统
- 成绩：GPA 3.51 / 4.00

工作经验

Libpet Tech Co., Ltd. 香港机器人公司

中国深圳

软件工程师

2025 年 8 月 - 至今

- 打造面向机场的世界级出行机器人座椅（类似 Uber 的模式）。
- 基于 Autoware、ROS 2 与 STM32 原型化自主机器人座椅，产品计划在香港机场部署。
- 按需承担多种工程与产品相关任务。

Streamax Tech Co., Ltd. 深圳自动驾驶公司

中国深圳

AI 算法实习生

2024 年 1 月 - 2024 年 8 月

- 在高鹏翼的指导下，将论文方案工程化并适配真实数据与业务需求，涉及 Monoflex 3D 目标检测与语义分割。
- 论文“*BEVCorner: Enhancing Bird's-Eye View Object Detection with Monocular Features via Depth Fusion*”已于 2025 年被 Applied Sciences 接收。
- 技术栈：PyTorch、PyTorch Lightning、OpenMMLab mmdetection3d。

Xendit

软件工程师

印度尼西亚雅加达

2021 年 9 月 - 2023 年 12 月

- 构建并维护面向数百万用户的第三方托管 (Escrow) 系统。
- 技术栈: AWS (SNS/SQS、ECR 等)、ExpressJS、Kubernetes、Kafka、RabbitMQ、Splunk、Datadog、Sentry。

Mekari

ANDROID 开发实习生

印度尼西亚雅加达

2021 年 1 月 - 2021 年 6 月

- 加入 Talenta Mekari 移动团队, 开发 Talenta App 的新功能。
- 技术栈: Android Studio (Kotlin、Retrofit、Dagger Injection、View Binding 等)、Bitbucket、Jira、Firebase。

GDP Labs

软件工程师实习生

印度尼西亚万隆

2019 年 5 月 - 2019 年 8 月

- 与 KaskusTV 团队合作, 探索使用 Google API Speech-to-Text 为上传视频自动生成字幕。
- 学习与使用的技术栈: REST、Java Spring Framework、Lombok、Google Cloud API 与客户端库、Google Cloud Function、Python Flask。
- 阅读《Clean Code》并在项目中践行工程最佳实践。

发表论文

已发表

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.

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个人奖项

东盟-中国青年领袖奖学金 (ACYLS) 2022/2023 (前 1%)

中国深圳

三年制硕士项目奖学金获得者

2022 年 9 月

在数千名申请者中入选前 50 名研究生, 获得三年制硕士项目全额奖学金。

计算机科学领袖奖学金项目 (前 1%)

印度尼西亚万隆

四年制本科奖学金获得者

2017 年 11 月

在印度尼西亚两所顶尖大学 2017 级信息学学生中入选前 10 名, 获得为期四年的全额奖学金。

教学经历

万隆理工学院

印度尼西亚万隆

图形学与人工智能实验室助教

2019 年 8 月 - 2021 年 7 月

- 2019: 逻辑计算课程实验助教
- 2020: 人工智能课程实验助教协调人
- 2021: 图形计算实验助教

Comlabs-USDI 万隆理工学院

印度尼西亚万隆

课程助教

2018 年 9 月 - 2019 年 9 月

- 使用 Microsoft Excel、Jupyter Notebook、Python、Pandas 与 C++ 教授编程与算法入门。

社区与志愿经历

Google Developer Student Club (万隆理工学院分会)

印度尼西亚万隆

社团负责人

2020年8月 - 2021年6月

- 当选 2020/2021 学年 Developer Student Club 负责人。
- 带领 9 人核心团队，面向 136 名学生举办 10+ 场线上实践工作坊与分享，主题涵盖 Google Cloud、TensorFlow、Android、Firebase、团队建设与女性科技等；并与 5+ 机构及本地/国际高校 DSC 负责人合作推广科技教育、联合举办技术讲座。

Sariputra ITB

印度尼西亚万隆

志愿导师与数学教师

2017年8月 - 2019年6月

- 在非营利组织 Sariputra ITB 担任志愿数学教师，服务低收入家庭的高中生。
- 辅导学生备战竞争激烈且至关重要的全国高校入学考试。

个人技能

爱好 尊巴、有氧瑜伽、阅读

语言 印尼语（母语）、英语（TOEFL iBT 94/120）、中文（HSK 5）