

KEVIN PRATAMA

Menlo Park, CA | kpkepra@meta.com | <https://github.com/kpkepra> | <https://kpkepra.netlify.app/>

EDUCATION

Cornell Tech – Cornell University, New York, NY Aug 2021 – May 2022
Master of Engineering in Computer Science | GPA: 3.89

Hong Kong University of Science and Technology, Hong Kong, HK Sep 2016 – Jun 2020

Bachelor of Engineering in Computer Science

Relevant Coursework: Cloud Computing, Operating Systems, Machine Learning Engineering, Deep Learning, NLP

Awards: Talent Development Scholarship 2017, Reaching Out Scholarship 2018 (Top 3%), Diversity and Inclusion Scholarship in Toronto Machine Learning Summit 2018 (Top 2%).

University of Waterloo, Waterloo, CA Sep – Dec 2018

Undergraduate Exchange Student in Computer Science

TECHNICAL SKILLS

Coding Language:	C++, Python, Java, Rust	Full-Stack:	React, Firebase, AWS Lambda
Machine Learning:	PyTorch, Tensorflow, Keras	Other:	Linux, ROS, STM32, Git

EXPERIENCE

Meta, Software Engineer, Menlo Park, CA Jul 2022 - Present

- Currently developing the feature engineering platform for graph learning.
- Developed the Batch Feature Platform for Facebook Feature Framework (F3)

Hong Kong University of Science and Technology, Research Assistant, Hong Kong, HK Sep 2019 – Jun 2021

- Built a Facial Analysis for Well-Being of Elderly Citizens in Hong Kong, which achieved the Best Final Year Project 2020.
- Designed the facial and physical activity detection in Python, OpenPose, and Tensorflow, which provided insights to improve the service quality of elderly caretakers by 7% in Haven of Hope hospital, one of the busiest hospitals in Hong Kong.

Société Générale, Data Science Intern, Hong Kong, HK Jun – Aug 2019

- Deployed the market risk anomaly detection and visualization dashboard (Python, Tensorflow, React) to the company's Data Science Lab for the adoption of over 40 employees in the branch.
- Improved the machine learning pipeline accuracy by 10% by transforming the time-series input data into 2D images using Gramian Angular Field (GAF) and defining five anomaly types and two models based on autoencoders.

Sightecho, Summer Research Intern, Hong Kong, HK Jun – Aug 2018

- Built a Google Glass prototype for scuba divers with AR display, depth detection, and wireless firmware update in STM32, C, and Android, which was presented at TechCrunch San Francisco 2018 exhibition attended by 8,000+ tech enthusiasts.
- Conducted user experience research in the scuba diving industry, which gained the interest of over 50 divers.

PROJECTS

Aksel – Indonesian Student Peer Mentor Platform (JavaScript, Node.js, Firebase, React, AWS Lambda) Apr – Jun 2021
Software Developer - Freelancer

- Designed a resume designer and peer-mentoring platform in React for over 2,000 Indonesian college students to download their designed resumes and find jobs easily using Serverless, AWS Lambda, Firebase, and Node.js.

DeepCode: Generating Source Code using Deep Learning (Python, PyTorch, Huggingface Transformers) Sep 2019 – Jan 2020
Machine Learning Researcher – NLP Research Project, supervised by Professor Sunghun Kim at HKUST

- Evaluated the performances of different NLP models (BERT, GPT-2, and Transformer) in generating source code quality, where the analysis showed that the GPT-2 performed 13% better than other models using the BLEU metric.

MATE ROV (Remotely Operated Vehicle) Competition (C++, ROS, OpenCV) Jan 2017 – Jun 2018
Head of Software Engineer – Underwater Robotics Competition

- Achieved 1st place in regional MATE ROV competition and top 5 out of 28 teams in the MATE ROV Competition 2018 in Seattle, Washington in leading a team to develop a fully operational ROV with software systems and controls using C++, ROS.
- Improved overall aircraft tail recognition accuracy by 18% using color quantization and underwater image restoration in OpenCV.

PUBLICATIONS

Shichao Li, Lei Ke, **Kevin Pratama**, Yu-Wing Tai, Chi-Keung Tang and Kwang-Ting Cheng. Cascaded Deep Monocular 3D Human Pose Estimation with Evolutionary Training Data, *The IEEE Conference on Computer Vision and Pattern Recognition*, 2020.