

Prakash Kumar

Software Engineer Intern

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Aspiring software engineer with a strong foundation in coding and problem-solving

WORK EXPERIENCE

Edgemaker.AI - SW Engineer Intern

March 2025 - August 2025

Singapore

- Built an AI analytics dashboard using React.js, Express.js and Python which analyzes Instagram influencers' data with 86% accuracy to score their trustworthiness and commenter activity.
- Built a Retrieval Augmented Generation (RAG) based chatbot for chat group moderators to query chat histories
- Secured sponsorship of USD \$6000 from 3 partners and organized NeuroSpark, a 250-participant entrepreneurship event, featuring EdgeMaker solutions.

Invigilo Safety AI - SW Engineer Intern

January 2023 - April 2023

Singapore

- Built Telegram bot that alerted DevOps team about uptime for 30 on-premise AI deployments, enhancing monitoring efficiency.
- Developed data collection pipelines to filter and collect camera footage from 6 sites in Singapore
- Developed a Python library for a rule-based engine, facilitating customizable business logic solutions in AI applications.
- Represented Invigilo at a build tech conference, gathering 50 sales leads

PROJECTS/COMPETITIONS

Alibaba Cloud Hackathon - 1st Runner Up

- Built admorph.ai, an advertisement morphing automation tool that turns a single ad into variants fit for every demographic group
- Developed a backend pipeline to rectify jumbled and misspelt text in images which improved accuracy by over 70%
- 5 minute pitch to VCs and Alibaba Cloud Investor Group and secured \$5000 prize
- Recognized by Alibaba Cloud Director, with support to continue the project.

CoLearn Learn Hacks - Best Individual Award

- Developed a classroom attentiveness scoring algorithm using sentiment and iris detection models
- Designed mockups of EduGauge, a lecturer's co-pilot that transcribes lectures and maps attention levels to students' test scores
- 2 minute pitch to Co-founder of San Francisco based Startup, CoLearn

DSTA Brain Hack AI & Robotics National Challenge - 1st Runner Up

- Developed custom mapping algorithm to map the robot's environment using checkpoints and walls
- Developed algorithm to search for fallen persons in robot's field of view
- Trained Object Detection for fallen soldiers with 0.96 mAP@0.5 on test dataset
- Trained Audio Speech Recognition models and developed logic to post-process output with 90% accuracy on test dataset
- Modified YOLOv8 post processing code to be ONNX compatible

Medical Database

- Developed a medical web application with HTML, CSS, Flask and SQLite3 to perform queries on a hospital database
- Designed and Implement Entity Relation Diagram with 3rd Degree normalization

EDUCATION

National University of Singapore (NUS) - Computer Science

GPA: 5.0/5.0

OTHER ACHIEVEMENTS

- Co-Founder, The Collective - Student Founder Community
- Microsoft Imagine Cup Top 10