

KEVIN JOSE

Technical skills

Programming Languages: C, C++, Python

Machine Learning: Numpy, Pandas, Scikit-learn, TensorFlow, Image, PIL, matplotlib, tkinter, Keras, OpenCV

Web Technologies: HTML/CSS

Miscellaneous: Adobe creative suite, Figma

Important courses

- Advanced Calculus
- Advanced Control Systems
- Pattern Recognition and Machine Learning
- Embedded Systems
- Product Design
- Design Management
- Product Planning and Strategy
- Computer Vision

Certifications

- Machine Learning specialization from DeepLearning.ai & Stanford University
- Deep Learning specialization from DeepLearning.ai
- Google IT Support Professional Certificate: Computer Networking
- Google UX Design Professional Certificate

Achievements

- Four time recipient for the connected recognition award for excellent performance in the work
- Secured the Carl Zeiss corporate award for the best project in the Engineering The Eye Hackathon jointly conducted by Microsoft, Carl Zeiss and LVPEI for the project Eye-fi.
- Best Outgoing Student for the class of 2015, Jawahar Navodaya Vidyalaya, Palakkad

Positions of Responsibility

- Student Mentor for underprivileged students, Avanti Fellows, JNV Bellari
- Coordinator - Rhinos, IIT Guwahati Basketball Club
- Peer Mentor for freshmen, Saathi - Counselling Service, IIT Guwahati

Extra-curriculars

- Member of Cisco corporate Basketball team
- Represented IIT Guwahati in Basketball in the 52nd Inter IIT Sports Meet, 2017 held at IIT Madras and 53rd Inter IIT Sports Meet, 2018 held at IIT Guwahati.
- National Cadet Corps (NCC): Was a member of 27 Kerala NCC Battalion and secured A-certificate (KER/JD/10/82203).

Education

Indian Institute of technology, Guwahati

Bachelor of Technology, Electronics and Electrical Engineering, CGPA - 7.78/10
Minor in Produce Design CGPA - 8.8/10

Jawahar Navodaya Vidyalaya, Palakkad, Kerala

Class XII - 94.6%
Class X - CGPA 10/10

Experience

Software Engineer II

ACI India Team, Cisco Systems Pvt Ltd (Aug 2020 - present)

Feature owner of Command Line Interface, SNMP and NTP integration of APIC controller of Cisco's flagship SDN solution ACI.

Previously worked on L3out and floating L3out feature of APIC.

Major Projects:

- Multiple encapsulation support for L3out with SVI.
- Dual stack support with same encapsulation on VMM Domain Floating L3out.
- Platform specific support for CLI (Mainly for cloud APIC).
- Support for Optimal forwarding when Route configured with NH as Virtual IP.
- net-snmp integration redesign
- VMware NSX integration with ACI (Integration of new Policy API)

Worked with different teams to resolve critical bugs across various features.

Software Development Intern

Samsung Research Institute Noida (May 2019 - July 2019)

Used STGAN with Selective Transfer Units to achieve facial attribute editing and developed a tkinter Image Viewer GUI as a temporary app to display the results.

Proposed model achieved a 20% accuracy gain over all the contemporary models. Awarded a Pre-Placement Offer (PPO) for exemplary demonstration of technical skills during the internship.

Research Intern

Indian Institute of Technology, Hyderabad (May 2018 - July 2018)

Worked with Dr. Sumohana S Channappaya, Professor, Dept of EEE, IIT Hyderabad. Used coupled GANs implemented using Keras with TensorFlow backend based on UNIT paper to extract depth information from the shared latent space of stereoscopic images. The depth information was used to assess the quality of Translated Stereoscopic Images.

Projects

Accuracy analysis of multi-static radars

Accuracy analysis is being done in determining the transmitter position given the configuration of the radar system using the TDOA method.

Given the tolerance level and coverage area as constraints, found the optimum configuration of radars using a two-stage regression model.

Efficient Hardware Implementation of CNN

Designed a Fast Convolution Unit (FCU), based on the Fast Fourier Transform (FFT) algorithm.

Designed physical hardware for one such FCU, and implemented the whole processing unit for CNN in FPGA and enhanced the performance of the VGG16 model with a 3*3 kernel by 33%.

Auto-diagnosing system for Duane's Retraction Syndrome

Designed the digital diagnosing part for DRS using OpenCV and Harr Cascade Classifier for Near-Infrared Images (NIR) and Microsoft Azure Face API for the colored images to detect the human eye and iris.

Designed a transfer channel for the collected information using Carl Zeiss API.

Branding for TJ Distributors pvt ltd

Did the complete branding, including logos, brochures, typography, letterpads, visiting cards, hoardings, name boards, t-shirt designs for a startup in the aluminium utensils industry.