

# Anirban Bala Pranto

Github | Gitlab | LinkedIn

Leetcode

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## EDUCATION

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- **Multimedia University** Cyberjaya, Malaysia  
*Bachelor of Computer Science (Honours); CGPA: (3.91/4.00)* Mar. 2021 - Jan. 2024

## EXPERIENCE

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- **ViPr Lab, Multimedia University** Cyberjaya, Malaysia  
*Research Assistant* January. 2023 - Present
  - **Image Aesthetics and Emotion Assessment:** Working on developing state of the art Graph Convolutional Networks (GCN) to perform joint prediction of Aesthetics and Emotions of photographs. (Pytorch, FastAPI)
- **Auronex Sdn Bhd** Kuala Lumpur, Malaysia  
*Software Engineer, Backend (Part-Time)* Mar. 2021 - Present
  - **Message Queue and Serverless Services:** Achieved approximately a **2.6x** performance gain by designing and integrating message queues for inter service communication between vm instances and serverless functions to scale **Parcel Daily** to be able to support upto 1000 concurrent orders, it decreased our shipment creation time from 40 seconds to 15 seconds for per 100 orders. (AWS Lambda, AWS SQS)
  - **Subscription Model:** Implemented and designed a membership subscription model for **Parcel Daily** which allows users to get special pricing and automatic billing every month. (SenangPay/Billplz)
  - **Consignment Note Generator:** Implemented a service to generate consignment notes for different courier services in **Parcel Daily** in a standardized form and upload them to the cloud and a REST API endpoint to download the consignment notes in either Thermal or A4 format. (AWS S3)
- **Auronex Sdn Bhd** Kuala Lumpur, Malaysia  
*Software Engineer Intern, Fullstack* Nov. 2020 - Mar. 2021
  - **OTP:** Developed an OTP microservice for an ad campaign of P&G, the feature was deployed, and used all over Malaysia and Singapore in Christmas 2020. (NodeJS, Typescript)
  - **Video Upload Pipeline:** Implemented a video upload pipeline. Reduced the backend service memory usage by 80% with the use of upload tokens that enabled the users to upload from the client side. (ReactJS, MUX, NodeJS)

## PROJECTS

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- **Present:** Backend API and Frontend Client App for a face recognition system for attendance taking. The frontend uses MTCNN model while the backend uses a Siamese Network for matching images. (React, Typescript, AWS S3, AWS EC2, Pytorch, Face-API)
- **Barcamp 2021 API:** Backend RestAPI for registration, topic proposal and voting for Barcamp Cyberjaya 2021. Barcamp is an annual unconference hosted by IT Society, MMU Cyyberjaya. (NodeJS, Typescript)
- **Cyber Rent:** A room renting service desktop app that built as part of Object Oriented Analysis and Design class at Multimedia University. This application demonstrates the use of OO Design Patterns in real life. (Java, JavaFX)

## HACKATHONS AND COMPETITIONS

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- **Codenection 2022 Open Finals** Cyberjaya, Malaysia  
*Runner-up* Nov. 2022
  - **Competitive Programming:** CodeNecton is an annual nationwide Programming-focused event in Malaysia.

## PROGRAMMING SKILLS

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- **Languages:** Javascript/Typescript, C++, Python, Java, SQL, Bash
- **Technologies:** ExpressJS, AWS EC2, AWS S3, AWS Lambda, AWS SQS, MongoDB, MySQL, PostgreSQL, React, Vue, GCE, Nginx, Tensorflow/Keras, Scikit-Learn, Redis