CHRISTY JACOB

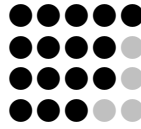@ christyjacob4@gmail.com   📞 (+91) 9611681613   📍 Bangalore, India   in linkedin.com/in/christyjacob4   🜨 github.com/christyjacob4

SKILLS

C++, C, Python, JavaScript, Node.js, Android Dev   ●●●●●
Java, OpenCV, Keras, Tensorflow, REST API   ●●●●○
MongoDB, MySQL, Firebase, Express.js   ●●●●○
React, Angular.js, VuePress, TestCafe   ●●●○○

EXPERIENCE

ANDROID DEVELOPER   Jul. 2019 - Present
Google Developer Student Clubs   Bangalore, India

- Currently developing an android app for a **non profit** called Why-Waste. Aim to Increase the **awareness** of the ongoing **water crisis** by awarding points to users who engage in water saving measures.

OPEN SOURCE CONTRIBUTOR   Jul. 2019 - Present
Codecrumbs.io   Stockholm, Sweden

- Developed **e2e testing** scripts using **TestCafe** to automate the CI/CD pipeline and **improve workflow speeds** by **upto 75%**.

RESEARCH INTERN (VISUAL INTELLIGENCE)   May. 2019 - Jul. 2019
Samsung Research   Bangalore, India

- Developed a system for **denoising Images** captured in ultra low light environments that led to an **improvement of 15%** in Image Quality over the current pipeline.
- **Improved the PSNR** of the current state-of-the-art by upto **7 dB** by improving the model architecture and fine tuning the network.
- Proposed and **built a CLI** tool in python to setup development environments that **improved developer productivity** by reducing time to setup dependencies from minutes to **under 5s**.

SOFTWARE DEVELOPMENT INTERN   Jul. 2017 - Aug. 2018
Marsview.ai   Bangalore, India

- Developed a module for **Driver Drowsiness Detection** that **reduced** the risk of **accidents by 60%** by alerting the driver if detected to be sleepy.**Optimised** the system to work seamlessly on a **Raspberry Pi 3** as a plug and play module.
- Built a companion **Android App & developed a REST API** to display logs and driving performance of drivers.
- Developed a system for **real-time Number Plate Recognition** on CCTV Footage.
- The system performed extremely well resulting in an **accuracy of 97%** in real-time prediction of Indian Number Plates, which are highly variable in dimensions, fonts, shape etc.

VOLUNTEERING

IEEE, Student Coordinator

- Worked closely with various teams in college to organise **workshops** ,**seminars** , **hackathons** and **industrial visits**.

Epsilon, Organiser for Science Showdown

- Handled all the **logistics** for Science Showdown, an inter college Science Exhibition at Epsilon 2017.

The Amateur Scientist, Organiser for Bomb Tag

- Built the **judge system** for Bomb Tag, An All India Bot Building competition for school students at The Amateur Scientist 2017.

The Amateur Scientist, Organiser for CodeWars

- Deployed the **online judge** server using **DOMJudge** for Codewars, which is the premier competitive coding competition at The Amateur Scientist 2016. We received the participation of over **350 teams** from across India.

EDUCATION

B.Tech in Computer Science   Aug. 2016 - Jul. 2020
PES University   Bangalore, India

- **Topper** of the batch with a **9.96/10.0 GPA**

High School   May. 2014 - Apr. 2016
AECS Magnolia   Bangalore, India

- **Topper** of the graduating class with an aggregate of **95.4%** in **AISSCE 2016**

PROJECTS

Handwritten Text Extraction

- Developed a system for **detection and recognition** of handwritten text from scanned documents. structured and unstructured forms for automatic digitisation.

Container Orchestrator

- Developed a Container Orchestrator as part of the **Cloud Computing** Course, capable of **Load Balancing** incoming HTTP requests, handling **Fault tolerance** and **Health polling** of docker containers.

Py-Rust

- Developed a compiler for the Rust Language using the PLY framework with a complete **lexer**, **syntax analyser**, **semantic analyser** and **machine-independent** optimiser.

E-Commerce Website

- Built a fully functional E-commerce website as part of **Database Management Systems** Course. Designed Databases and developed a **REST API** using Express to perform all the CRUD operations.

Ask Us Pal

- Lead a team, **The Statesmen**, to the finals of **Finnovatica 2018**, a FinTech Hackathon, where we pitched the feasibility of an **interest free credit system** for college students and displayed a proof of concept using the app.

Gramophone

- Built a **music streaming** website as part of **Web Technologies** Course Project. This was my entry point into web technologies and was built from scratch using vanilla JavaScript, PHP, HTML and CSS.

Signature Verification

- Developed a Python app to curb down **forgery** by classifying a signature as forged or genuine. Achieved an **accuracy of 83%** on the SIGCOMP 2011 Dataset.

HONORS & AWARDS

- Dr. CNR Rao Merit Scholarship **Topper of Batch since 2016**
- Prof.MRD Merit Scholarship **Topper of Batch since 2016**
- **Finalist**, BootStrap Paradox Hackathon by Blume Ventures, 2019
- **Finalist**, DotSlash Hackathon by PES University, 2019
- **2nd in India**, Java Full Stack Challenge by Mphasis, 2019
- **Finalist**, Aerothon by Airbus, 2018
- **Finalist**, Rakathon by Rakuten, 2018
- **Finalist**, Hackathon for Good, Netherlands, 2018