

Chanuka Wijayakoon

Infoholic indulging in coding, photography, and literature.



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Education

University of Moratuwa, Sri Lanka

Oct 2014 - Dec 2018

B.Sc. Engineering (Honours) specialized in Computer Science and Engineering, Merit scholar. First Class - GPA 3.71 (out of 4.2). Dean's List for GPA above 3.8 in semesters 1, 4, 6 and 7.

Chartered Institute of Management Accountants (CIMA)

Jan - Aug 2011

CIMA Certificate in Business Accounting

Research & Professional Experience

- Senior Software Engineer / Front-end Lead** Nov 2018 - To Date
Your Team in Asia (Formerly DesignBoo Pvt Ltd)
Built web & mobile application suite of The GP Service platform, currently available on [Apple App Store](#) and [Google Play Store](#). Also built internal apps for use in pharmacies. These apps facilitate remote healthcare services including e-channeling and prescription delivery.
- Freelance Software Engineer** Jan 2020 - To Date
Built multiple web and mobile applications for clients in the USA, UK, and Sri Lanka. These include a storefront solution built with Saleor open-source platform (React), insurance claims mobile app (React Native), and a care person management platform (Angular).
- Research Engineer [Full-time]** May - Oct 2019
School of Information Systems, Singapore Management University
Explored visualizations of images near the decision boundary of convolutional neural networks, using genetic algorithms. Found inconsistencies in translation invariance of CNNs and came up with a training technique that improves their robustness.
- FlowChroma - Final Year Research Project [Full-time]** Jan - Dec 2018
Department of Computer Science & Engineering, University of Moratuwa
Created a novel encoder-decoder neural network architecture with Recurrent Neural Networks to colorize grayscale videos. Also created an associated dataset and benchmark for video colorization. Was awarded an Amazon Cloud Credits for Research grant worth \$15,000.
- Software Engineer [Full-time]** June - Dec 2017
Sysco LABS Sri Lanka
 - Worked in the Core API team and the Reports team. Developed a universal request idempotence algorithm that can be plugged into any API. This allows the differentiation of API requests to avoid duplicate transactions.
 - Developed a new Reports interface for restaurant owners to view sales performance metrics with multiple filters at different granularities, going down to hourly values. Also wrote an adapter API to seamlessly fetch data from multiple sources.
- Google Summer of Code Internship | Open-Source Contributor** April - Aug 2017
OpenMRS | [Project Page](#)

Migrated the Operation Theater module from an older OpenMRS platform version to the latest. Updated the code base and Optaplanner library version used to schedule surgeries in available operation theaters. Performed workflow enhancements to enable data collection for analytics. Currently contributing to OpenMRS OCL Client project.

Publications

Conference Papers

- Abeyasinghe, C., Wijesinghe, T., **Wijayakoon, C.**, Jayathilake, L. and Thayasivam, U., “FlowChroma – A Deep Recurrent Neural Network for Video Colorization”, in: Campilho A., Karray F., Wang Z. (eds) *Image Analysis and Recognition*. ICIAR 2020. Lecture Notes in Computer Science, vol 12131. Springer, Cham. https://doi.org/10.1007/978-3-030-50347-5_2 [\[chapter, code\]](#)
- Abeyasinghe, C., Wijesinghe, T., **Wijayakoon, C.**, Jayathilake, L. and Thayasivam, U., “Video Colorization Dataset and Benchmark”, in *Moratuwa Engineering Research Conference (MERCon)*, pp. 37-42, 2019. [\[paper\]](#)

Achievements, Awards & Recognitions

- **Amazon Cloud Credits for Research** 2018
Recipient of research grant worth US\$ 15,000 for the project FlowChroma.
- **IEEE Xtreme Programming Competition** 2015
Ranked 14th in the country and 191st worldwide out of over 1900 teams.
- **Full Student Scholarship & Mahapola Scholarship** 2014
To follow the B.Sc. Engineering (Honours) programme at University of Moratuwa, Sri Lanka.
- **Dr. G.C.L. De Silva Memorial Prize** 2013
For obtaining high distinctions in all subjects at both G.C.E. Ordinary and Advanced Level examinations. Awarded by Royal College, Sri Lanka.
- **Bronze Medal at Sri Lanka Physics Olympiad** 2013

Skills

- Programming
 - Fluency in JavaScript, Python, and Java
 - Web development: React, Angular, HTML, CSS, NodeJS
 - Mobile app development: React Native
 - Machine Learning frameworks: Tensorflow, Keras
- Other
 - Photography

References

- **Prof. Jun Sun**
Professor in Computer Security, School of Information Systems, Singapore Management University.
Email: junsun@smu.edu.sg
- **Dr. Uthayasanker Thayasivam**
Senior Lecturer at Department of Computer Science & Engineering, University of Moratuwa.
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- **Mr. Prabhath Pathirana**
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