

Abel S. Augustine

GRADUATE STUDENT IN COMPUTER SCIENCE AT UIC & DATA SCIENTIST AT DATACUBES INC.

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Education

M.S. in Computer Science

Chicago, USA

UNIVERSITY OF ILLINOIS CHICAGO

August 2017 - Present

- Working on a research project in the field of medical imaging to determine the existence of correlation between heart disease and erythrocyte flow in the eye's blood vessels using computer vision and machine learning.
- Developing an AI based company in the field of ecommerce as part of a course. Involved in developing the product map, market strategy and developing recommendation systems of various types.
- Developed an Aspect based Sentiment Analysis system that beats state of the art accuracy.
- Created an application that learns human behavior in an environment. Applied it to learn driving from F1 2017 game.
- Worked with the company, Explorer.ai to create deep learning models in the context of 3D mapping for self driving cars. Performed real-time traffic sign detection.
- Gave a 2+ hour talk on computer vision and classification and detection problem. Experimented across various NLP problems and implementing recent research papers.
- Developed solutions for Kaggle problems like Otto Product Classification and Young People Empathy Prediction.

B.Tech. in Electronics and Communication Engineering

Karnataka, India

NATIONAL INSTITUTE OF TECHNOLOGY, KARNATAKA

July 2011 - May 2015

- Developed a real-time low-cost portable OCR system aimed at allowing visually challenged people to read printed text.

Technical Skills

Programming Languages Python, Swift, C/C++, Java

Machine Learning scikit-learn, opencv, Keras, R, TensorFlow, MATLAB, PowerBI, Tableau, Netica - Probability & JESS

Database SQL & Neo4J (CYPHER)

Web Flask, HTML5, Javascript, CSS, AngularJS, Spring

Mobile Development iOS, Android & Apache Cordova

Relevant Work Experience

Datacubes Inc.

Chicago, USA

DATA SCIENCE INTERN

May 2018 - Present

- Re-engineering the entire OCR pipeline to handle insurance related documents using image processing, deep learning and other machine learning techniques to beat their current system and other SOTA OCR platforms.

Emirates Innovation Lab, Emirates Group

Dubai, U.A.E

SOFTWARE ENGINEER - INNOVATION (DATA SCIENCE AND AI)

July 2015 - July 2017

- Initiated and co-developed the 'CogniFace' platform - a face recognition platform based on CMU Open Face. Also developed use cases built around this platform like a system similar to Amazon Go, presence monitoring, reminder prompting etc.
- Worked on 'Predictive Capping' project predicting agent fraud using machine learning techniques. Obtained an accuracy of upto 91% with booking data saving the company 6 million dollars every year.
- Led the project R&D for a vacation recommender architecture using machine learning and graph networks.
- iOS Team Lead and Developer for 'Skywards'. Led a team of 5 and developed a production level non-trivial iOS app on Swift.
- Full stack developer on 'Skywards Engagement Platform'. Developed a social media system through Neo4J, a graph database (using CYPHER Query Language). Involved in writing the REST services on Spring Boot (Java Spring Framework).
- Developed hybrid applications for mobile and Web using Cordova and Angular JS.

Awards & Achievements

2017 **First Prize**, Emirates-Carnegie Mellon University Data Science and AI Hackathon

Santa Clara, U.S.A

2016 **Ready to Take-Off Prize**, IATA NDC Hackathon

Dubai, U.A.E

2015 **3rd Place**, IoTx Hackathon

Dubai, U.A.E

2015 **Finalist**, Intel IOT Roadshow Hackathon

Bangalore, India