ABEL JOSEPH JOHN

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EDUCATION

N.S.S. College of Engineering, Palakkad *August 2016 - Present*
Bachelor of Technology(Honours), Electronics and Communication Engineering   Present CGPA: 8.06

Kendriya Vidyalaya No.1, Palakkad *April 2014 - March 2016*
Higher Secondary Education, PCM with Computer Science   Overall Percentage: 91.2

WORK EXPERIENCE

Takenmind August 2018
Data Analyst Intern *1 month*

Worked with the tools seaborn and pandas to predict from the given employee data the probability of an employee leaving the organization by using heat maps, KDE plot etc. and a classifier.

GirlScript Foundation June 2018 - August 2018
GirlScript Summer of Code *3 months*

During the 3 months long program,worked on the open source project Images to PDF and brought it from prototype to a product published on the Google PlayStore, under the mentoring of GirlScript foundation.

Bharat Sanchar Nigam Limited August 2018
Student Intern *5 days*

Gained first-hand experience in the principles and technologies involved in long-distance communication and also familiarized the past, existing and future technologies in wireless and wired communication.

PyCon India 2018 June 2018 - July 2018
Website Developer *2 months*

Was part of the team responsible for maintaining the website of PyCon India 2018. Made three visual changes to make site more appealing.

Internshala March 2018 - May 2018
Internshala Student Partner *3 months*

Promoted Internshala and its products successfully. Doubled the number of active students on the platform and assisted students in attaining internships.

NativeByte Softwares LLP November 2017 - February 2018
Video Editor Intern *3 months*

Responsible for writing scripts in Python using the blender software for adding creative content to educational videos and enhancing the overall learning experience offered to students.

Hasura May 2017 - August 2017
Product Development Intern *3 months*

Worked towards the development of the assigned application and assisted the Hasura team in the improvement of the platform by giving relevant feedback and discovering bugs related to the platform services.

PUBLICATION

"Secure Data Logging for IoT Devices" - ISBN 978-81-937043-70

PROJECT EXPERIENCE

HACK Computer, NAND to Tetris
Started from the universal NAND gate to create a CPU and memory in HDL, for the Hack hardware platform. Using the machine language created the assembler, compiler and implemented the software projects Pong and Tetris for Hack computer. This was part of the MOOC, Build a Modern Computer from First Principles: From NAND to Tetris.

Image Style Transfer using CNNs
Implementation of the paper of same title by Leon A Gatys. Achieved by separating content of one image and style of another. The new image is constructed with by passing the content through style defined over number of layers in CNNs.

Automated Flower Classifier Over Large Number of Classes
Improved upon the method for classification, on the paper of the same title by Maria-Elena Nilsback. Implemented in PyTorch using resnet152 pretrained model using transfer learning, the model achieved an accuracy of 92.3% an improvement over 83.3% as per the paper.

Super-Capacitor Powered Electric Train
Designed a super-capacitor based charge storage device to be used in railways to eliminate the need for overhead power lines to run trains.

OpportunityInbox
Developed a platform (opportunityinbox.com) using PWA technologies to deliver relevant opportunities to 1000+ students in their inbox. Was selected to attend 'Google Search conference' for the same.

Flash Sale Bot
Created a bot using Python and OpenCV to automate the process of buying required item during flash sale on e-commerce websites. Able to complete purchase under 3 seconds on reliable internet connection with 5th generation i3 processor.

Sunny Side App
Created a simple To-Do app using the android SDK that updates with weather data of the users location to give relevant information and plan various activities accordingly.

TECHNICAL SKILLS

Programming Languages	VHDL, Verilog, C++, Python, SQL
Software & Tools	LaTeX, MATLAB, SciLab, LTSpice, KiCAD

MOOC

Build a Modern Computer from First Principles	Hebrew University of Jerusalem
Introduction to Arduino Programming	Institut Mines-Telecom Business School
Machine Learning	Stanford University
Basic 3D Animation using Blender	IIT Bombay
Design for Internet of Things	IISc Bangalore
Introduction to Machine Learning	IIT Kharagpur
Computational Science and Engineering Using Python	IIT Kanpur

ACHIEVEMENTS

Accepted to speak at SciPy India 2018 on DSP using Python held at IIT Bombay.

Selected to attend Google Search Conference for my project OpportunityInbox.

Among top 10% programmers on Hackerearth in 2017.

Received first prize in ideation competition conducted by Academy of Entrepreneurship and Management.

Project design selected by National Innovation Foundation for further development.

EXTRA CURRICULAR

Coordinator for the technical event "TRANSMITTER HUNT" for college fest Dyuksha.

Participated in the qualifying round of Texas Instruments India Innovation Design Challenge 2018.

Recipient of Facebook PyTorch Scholarship Challenge 2018.

Volunteered for the UN India campaign 'Beat Plastic Pollution' for World Environment Day 2018.

Recipient of Google Skill India Challenge 2017.