

REUBEN VARGHESE

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EDUCATION

Master of Science in Computer Science **May 2021(Expected)**
New York University, New York

Bachelor of Technology in Computer Science and Engineering **May 2019**
Vellore Institute of Technology (VIT University), India (8.65/10.0)

Technical Skills: • C • C++ • Java • Python • Spring Boot • ReactJs • SQL • PHP • Django • AWS • Git • Linux

WORK EXPERIENCE

Google Summer of Code | Student Software Developer with OpenMRS **May - Aug 2017, 2019**

- Selected twice for the prestigious Google Summer of Code program (<7% acceptance rate)
- Lead scrum meetings as scrum master between Jan-July, 2017 and was release manager for Reference Application 2.9. Employed the Test-driven software development process for AddOns
- Collaborated with researchers from institutes like Regenstrief Institute, Partners In Health and engineered the official automatic module repository for OpenMRS. Designed Rest APIs which are leveraged by the OpenMRS module developers and automates the module deployment process. This led to a 40% increase in server efficiency. The product is now live under the name OpenMRS AddOns
- **Technologies & Frameworks:** Java, REST API, XML, Maven, JSON, Spring Boot, Elasticsearch, Mockito, ReactJS

VIT University | Teaching Assistant, Problem Solving and Programming **July – Dec 2018**

- Held recitations, lab sessions, TA hours and graded assignments

RedHat, Inc. | Quality Engineering Intern **May - July 2018**

- Worked with the CloudForms Management Engine (CFME) team at RedHat Pune, India to design integration tests for the ManageIQ cloud management platform
- **Technologies & Frameworks:** Python, Selenium, Pytest

PROJECTS

- **IdentiCam(Amazon AWS EC2, Python, Matplotlib, Keras, Numpy):**
A deep learning-based solution to identify the camera from which an image was taken
- **CHAI (Telegram API,Amazon AWS EC2, Python, Tensorflow, Keras, Numpy):** A deep learning based chatbot that can generate a caption and recognize the scene and objects in any image
- **Equilibrium (Linux Kernel, C, Android):** CPU governor based on the Hotplug governor. Tested on the Google Nexus 5 and resulted in an average 5% increase in performance and better battery life
- **Ujala(Raspberry Pi, Amazon AWS EC2, PHP, Bootstrap):** An Energy efficient automation of appliances that leverages data analytics to understand the energy usage pattern
- **SmartBuy(Django Framework, Python, Requests library, Urllib):** A price comparator website that scrapes multiple e-commerce platforms to present the user with the best options

PUBLICATIONS

- **“Transforming Auto-Encoder and Decoder Network for Paediatric Bone Image Segmentation”**, IEEE International Conference on Intelligent Informatics and Biomedical Sciences, October 2018
- **“Affordable Smart Farming Using IoT and Machine Learning”**, IEEE International Conference on Intelligent Computing and Control Systems, May 2018

ORGANIZATIONAL EXPERIENCE

- Speaker for a Student Seminar sponsored by Association for Computing Machinery (ACM) on the topic “An Insight into modern Robotics”
- **Google Code-In Mentor (2017,18):** Mentored high school students in getting started with contributing to open-source software
- Worked as a research Intern under Prof. Veronika Cheplygina from Eindhoven University of Technology on extended their research on "Crowd disagreement about medical images is informative"
- Briefly worked on a Freelance Project involving the development of an Android Taxi app and website