

Libin N George

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Masters in Information Science: Machine Learning Email: libinngeorge@gmail.com

ACADEMIC DETAILS

Examination	Institute	Year	CGPA/%
Masters in Information Science: Machine Learning	University of Arizona Tucson, Arizona	2023-2025	4
B.Tech Computer Science and Engineering (with honours)	Indian Institute of Technology, Palakkad	2015-2019	9.07
Class XII CBSE-AISSCE	Jawahar Navodaya Vidyalaya, Kollam, Kerala	2014	91.8%
Class X CBSE	Jawahar Navodaya Vidyalaya, Kollam, Kerala	2012	10

WORK EXPERIENCE AND INTERNSHIPS

- **VMware Software India Private Limited(VMware by Broadcom)**
(March 2022 to August 2024)
 - Worked on python Django Framework.
 - Worked on Go language Beego Framework.
 - Transforming the python code to GoLang.
 - Created Unit test in Golang using mockgen, sqlmock etc.
 - Solving Issues related to Performance degradation and race conditions in API Server.
 - Creating the logger which can track the context to track each request across multiple services.
- **ITS Planners and Engineers, Hyderabad**
(May 2019 to Feb 2022)
 - Developed java adapter which can read data from multiple interfaces of different detectors like RTEM loop detector, radar detector, laser detector etc. simultaneously.
 - RMI APIs where developed in python and java for sharing UTMC live and static data from servers.
 - Developed python modules for logging which enables centralized logging from multiple devices and servers.
 - Designed algorithms for tracking the travel time and estimated time for Public transport system from live GPS data.
 - Designed and developed python framework for Traffic Intelligence Module(TIM) with multiple sub-modules which can be replaced as required providing flexibility in communication protocols and hardware components.
 - Creating gRPC API and FAST API for UTMC data sharing.
 - Designing a system for scheduling different commands and executing them based on requested time duration and user privilege.
 - Taking initiative for formalising python coding and documentation standard for the entire company.
 - Mentoring interns for video-processing project for detecting vehicles using Non-Max Suppression method.
- **Summer Intern at Timken Engineering and Research India Private Limited**
(May 2018 to Jul 2018)
 - We have worked on Project "Seal Selection Tool" which helps the Timken users to select or find a seal. The work was mainly focused on the following Technologies: VS 2015, ASP.Net MVC, C#, .NET, JQuery, TFS 2015, SQL Server 2014, SQL SSIS Package.
- **Software Intern at Hamon Technologies LLP** (May 2017 to Jun 2017)
(Mentor : Noufal Ibrahim, Founder of Hamon Technologies LLP)
 - UZBL replacement using pygame : We have used the pygame library to replace the UZBL. As learning outcome I have improved the programming skills in python, and learned to code according to PEP-8 style for python code (used in pylint).

- Porting the excellent Python library psutil to C (cpslib): We have worked on a project which ports the python library to C library. We have worked ported the psutil in both windows and linux platforms. We have also written unit tests for the same library.

PROJECTS

- **Secure Linux Voice Command Controller** (Project, Aug 2018 to Apr 2019)
(Guide : Dr. Albert Sunny)
 - Objective: Create a background application which can identify users by basic voice commands and execute them.
 - Learning Outcome: Different methods for Voice Activity Detection, Speech Recognition and Speaker Recognition are explored. This Project is aimed to make a Voice controller which can recognize and understands user based on voice.
- **Minesweeper-CLI** (Team Project, 2015)
(Guide : Mr. Ramaswamy Krishnan-Chittur, Senior Software Engineer, Microsoft Corporation)
 - Objective : Make Game using C programming.
 - Learning Software Designing Strategy (including Architectural Design (Flowchart), Data Design, Human Interface Design.etc)
- **MASTI - Messenger Application for Student-Teacher Interaction.** (Team Project, 2018)
(Guide : Mr. Ramaswamy Krishnan-Chittur, Senior Software Engineer, Microsoft Corporation)
 - Objective : An application that facilitates interaction between multiple students and a teacher.
 - Learning Software Development Cycle (including Architectural Design (Flowchart), Data Design, Human Interface Design.etc)
 - We have used .NET C# to create the application.
- **Hospital Billing Manager** (Group Project, Aug 2017 to Aug 2018)
(Guide : Dr.Jasine Babu)
 - A Billing Manager for District Hospital which manages Government Funds like Karunya Benevolent Fund. It also manages Prescriptions, Bills and Account Statements. The project is build on laravel framework.
- **Document Summarizer.** (Mini Project, Aug 2017 to Sep 2017)
(Guide : Dr.Mrinal Kanti Das)
 - A mini Project which finds creates a short summary for a given document. This project uses Text Rank Algorithm for finding the summary for a given document.
- **Interactive Classroom over the network.** (Mini Group Project, Mar 2018 to Apr 2018)
(Guide : Dr. Piyush P. Kurur)
 - Objective: Create a desktop application which can broadcast video to students while allowing the students to interact with the lecturer in between.
 - This mini project is aimed at making a python app that can be used to have lectures taken remotely while allowing the students to interact with the lecturer in between. This project Implemented screen share, messaging and video calling for Interactive classroom experience. The Project uses Real- Time Transport Protocol (RTP) and Real Time Streaming Protocol (RSTP).)
 - Learning Outcome: Learns Time Transport Protocol (RTP) and Real Time Streaming Protocol (RSTP) used for real time communication and implements it.

EXTRACURRICULAR ACTIVITIES

- **Member of system administration support team in IIT Palakkad**
(2015 - 2019)
 - Member of system administration support team in from 2015 to 2019 in IIT Palakkad Computer Lab.
 - Volunteer in Workshops for Linux installation and FOSS Workshop at IIT palakkad.
- Teaching students as a part of NSS activity.

TECHNICAL SKILLS

- **Programming Languages** : C, C++, C#, Java ,Python, GoLang, R, Haskell, PHP, HTML, CSS, SML, C CUDA - Parallel programming.

- **Operating Systems:** Linux (Ubuntu), Windows.
- **Tools and Technologies:** GIT, MATLAB, MySQL/ MariaDB, mongodb, PostgreSQL ,SQL Server 2014 , Visual Studio, Business Intelligence Development Studio (BIDS), Emacs.
- **FrameWorks:** .NET, MVC(Model View Controller) - (.NET MVC, Laravel).

STRENGTHS

- Positive Attitude, Hardworking.
- Fast Learning.

INTEREST AND HOBBIES

- Solving Puzzles.
- Reading Books.