

Gautham M

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EDUCATION

- **National Institute of Technology Karnataka** Surathkal,India
BTech in Computer science and Engineering(6th Semester); CGPA: 6.84 Aug. 2015 – July. 2019
- **Kendriya Vidyalaya No.1 Panambur (CBSE)** Mangalore, India
class 12; 87.4% July. 2015
- **NMPT High School Panambur (KSSEB)** Mangalore, India
class 10; 97.12% June. 2013

KEY SKILLS

- **Programming:** C/C++, Java, Python.
- **Web and App Development::** HTML, CSS, JavaScript, PHP, nodeJs.
- **Frameworks::** Angular 5, Bootstrap, LARAVEL, SpringMVC.
- **Databases::** My SQL,NoSQL.
- **Machine Learning Libraries::** Jupyter, Scikit, Numpy, Pandas.
- **Simulators::** ns-3.
- **Operating Systems:** Windows 10, Ubuntu 18.04(Linux)
- **Other Utility:** GIT, Junit

INTERNSHIPS

- **BNY Mellon Technology** Chennai, India
Software Development Intern May 2018 - July 2018
 - **Data Analysis:** Analyzed and Structured Raw Data Pertaining to the clients.
 - **User Interface Building:** Creation of User Interfaces using Angular 5 to access the database.
 - **Api Development:** Back-end For the Project was built on MVC Architecture using Spring Boot.
 - **Validation:** The data entered input received from the users are validated for standards and discrepancy at both UI and API Level
 - **Testing:** The Developed Apis were Tested using Spring Test and Junit .
- **Enheit Online Pvt.ltd** Chennai, India
Web Development Intern May 2017 - July 2017
 - **Gallary Page:** An Image Gallery Page was built using Laravel Php Frameworks
 - **Color detection :** The uploaded image was processed to detect colors which could be used for searching.
 - **User Interface Modifications:** The website was modified so as to Increase the user Friendliness.
 - **Social Media Login:** login with Facebook and Google plus were implemented.
 - **Api for App Interaction:** Apis were developed to interact with Android Applications
- **IT Section Finance Division (EDP) of New Mangalore Port Trust** Mangalore, India
Trainee December 2016
 - **Port Operation System:** Analyzed various modules and sub-modules of Port Operations Management and Information System, Port Operations and Port Control Systems,
 - **ERP:** Studied the functionality of Enterprise Resource Planning, Hospital Management Systems used in the industry
 - **Servers:** Analysed the methodologies used for Server load sharing Firewall systems and Data Backup.

PROJECTS

- **CARED in Linux Kernel:** Implementation of Cautiously Adaptive Random Early Detection Active Queue Management System Algorithm in Linux Kernel.
- **Image Pre-Processing for OCR:** Improving the efficiency of OCR with image pre processing techniques like contrast changes, Thresholding, angle Correction.
- **Water Quality analysis:** Given the factors determining quality of water at given place genetic algorithms were used to predict the quality of water.
- **User Friendly Ping application for ns-3:** a module proposed where it becomes easy to ping a node on ns-3 Network simulator.
- **K-Means Image Segmentation on Massively GPU Architecture :** Implement Kmeans image segmentation algorithm on CUDA GPU Architecture and compare the performance with CPU.
- **CRC-Assisted Error Correction In a trellis coded System with bit stuffing:** Implemented using c++ and tested using client server model.
- **ChatBot:** Using Sequence to Sequence Artificial Neural Network on Tensor flow to implement Simple Chat Bot .
- **OS-SYM:** implements various concepts of operating System and also works as a tutor for people with no prior knowledge about the topic using python Tkinter Library.
- **OS-BOOT:** A capstone project on development of a operating system running on bochs simulator the accepts command for copy, create and delete files.
- **RSA-SYM:** A simple C++ code to show the working of RSA Encryption Algorithm.
- **GYM-Management:** Centralized maintenance and performance tracking System for tracking gym users Data.
- **C Compiler :** A Simple c compiler with limited functionality that generates Intermediate code from C code built with yacc and lex.
- **Web Development :** Couple of websites were developed E-commerce for collage students, Stock buy and sell, Scraping websites using Angular,PHP,Bootstrap.

AREAS OF INTEREST

Algorithms, Data structures, Machine Learning, Artificial Intelligence, Computer Networks, Data Mining, Web Development

AWARDS AND OTHER ACTIVITIES

- Selected for NTSE scholarship in which one thousand students were selected by aptitude test in the year 2011.
- School runner up in class 10 by securing 97.12 % marks in the year 2013.
- Successfully completed Inspire internship conducted by Department of Science and Technology for motivating talented youth to take up research careers in winter 2014.
- Attended 3 days workshop on ethical hacking organized by Engineer NITK.
- Completed Google Applied CS with android workshop.
- Attended five days GIAN Course on Software Defined Networks at NITK Surathkal.

PERSONNEL INFORMATION

- **Date Of Birth:** 04 August 1997
- **Sex:** Male
- **Hobbies:** Competitive Coding, taking up MOOCs, Swimming, Traveling.

PROFILES

- **GitHub:** <https://github.com/GauthamMaraswami>
- **Linkedin:** <https://www.linkedin.com/in/gautham-maraswami>
- **WebPage:** <https://gauthammaraswami.github.io/>