

## Professional Summary

Versatile software engineer with 12 years experience in developing software/embedded products for various government/private organisations. My career mission has been to work with thriving people/organisations to make software products that help people lead better lives.

## Experience

### Centre for Development of Advanced Computing ( Chennai, India )

#### Principal Engineer

Jan 2019 – Present

- Developed a portal for monitoring candidate behaviour, anomaly detection and centre delay in near realtime during CAT exam. Client: Indian Air Force, Utilised: MEAN Stack.
- Built a web platform that enables NBA to perform regulatory functions against any non-compliance. Developed visualisations & maps for taxonomy, patent/journals search & filter system, e-filing reviewer. Client: National Biodiversity Authority.
- Designed & implemented front ends of SCRB portal. It has accused search & filter, timelines, crimes trends visualisations. Utilised: jQuery, VueJS, ChartJS.
- Created a wrapper for Imapsync (perl) to migrate mails from Gmail to CUTN servers.
- Implemented front ends for covid19 dashboard. Utilised: Leaflet, Bhuvan Maps, jQuery.
- Customised ReactJs modules for a maritime ship tracking software.

#### Senior Engineer

Jan 2013 - Jan 2019

- Implemented new features for CDAC's Project Accounting System. Utilised: AngularJS.
- Developed a dashboard for GCC. It has grievance redressal, revenue, ambulance tracking & air quality modules. Utilised: ExpressJs, Charts.
- Overhauled poorly designed user interfaces of Mess Management System (Navodaya School ), designed wireframes & implemented pages in HTML/CSS.
- Developed the ethernet/WiFi interface of Smart plug. Implemented a scheduler. avr-gcc, Java, RN171, Atmega2560/328, W5100, CADSTAR. Deployed at HPC Facilities, Pune.

#### Engineer

Nov 2008 - Jan 2012

- Designed dimmable ballasts for CFLs and LED drivers for dimple LEDs. Utilised: CADSTAR
- Worked on a research project called Instrument bed. It aims at unobtrusive monitoring of respiratory signals & pulse using high sensitive load cells.

### Kerala State Electricity Board ( Ernakulam, Kerala )

#### Substation assistant

Sep 2007 – Oct 2007

- Collected daily meter readings, attended consumers complaints & reported to the duty engineer/line worker.

### Personal Works

- As a hobbyist programmer, I develops things that others uses. Details at my [Website](#).
- Context Aware Framework - Java RMI, Malayalam dictionary - Flask & SQLAlchemy, Browser extensions for Malayalam dictionary - JavaScript, A basic scheduler for AVR.

## Education

University of Kerala, Amrita Vishwa Vidya Peetham

2003 - 2007

Electronics & Communications (GPA: 6.5), Project: Encrypted wireless walkie talkie.

ER&DC, CDAC, Trivandrum, Kerala

2008 (6 months)

PG Diploma in Embedded System Design, Subjects: Data Structures, C, AVR, Algorithms.

Model Technical Higher Secondary School, Kaprassery, Kerala

1998 - 2003

Subject: Electronics, Electrical, C, BASIC, FORTRAN,

### Languages

JavaScript, C, Python,  
PHP, HTML, SQL, Dart,  
Java

### Frameworks

Angular, Express.js,  
Node.js, Flutter , Hapi.js,  
jQuery, Flask

### Concepts

Object Oriented Design &  
Development, Entity  
Relationship Diagram,  
UML

### Software/Platform

Mongo, Pg/MySQL, git,  
gcc, ELK, Apache,  
Firebase, LAMP,  
CADSTAR, VSCode, Vim,  
Android

### Systems

Mac, Ubuntu, Windows