Arunkumar V

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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)   *Nov 2008 - Present*

Principal Engineer   **Jan 2016 – 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 patent/journals search & filter system, e-filing reviewer and visualisations & maps for taxonomy. 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 2012 - Jan 2016**

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

Engineer   **Nov 2008 - Jan 2012**

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

Personal Works

- As a hobbyist programmer, I try to make useful things. Below are some. More at my site.
- Malayalam dictionary - Flask & SQLAlchemy, Browser extensions for Malayalam dictionary - javaScript, A basic scheduler for AVR.

Education

University of Kerala, Amrita Vishwa Vidyapeetham, Kollam   **2003 - 2007**
Electronics & Communications (GPA: 6.56), Project: Encrypted wireless walkie talkie.

ER&DC, CDAC, Trivandrum, Kerala   **2008 (6 months)**
PG Diploma in Embedded System Design (82.83%), Subjects: Data Structures, C, AVR, Algorithms.

Model Technical Higher Secondary School, Kaprassery, Kerala   **1998 - 2003**
Subject: Electronics, Electrical, C, BASIC, FORTRAN,
Matriculation (THSLC): 72.5%, HSE(Plus Two): 71%

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,

Systems
Mac, Ubuntu, Windows