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SENIOR SOFTWARE ENGINEER

Hands-on Engineering Advisor – Enterprise Applications & Web-Facing SaaS Solutions

- Scalable and Flexible Software Solutions
- Usability Design and Localization Standards
- Project Management & Technical Guidance
- Pre-Sales consulting
- Customer Support & Satisfaction
- Outsourced Team Management

Professional Experience

Senior Software Engineer (December 2014- till now)	Structo Private Limited
Advanced Software Engineer (Aug 2013 – December 2014)	Pirate3DP Limited
Senior Software Engineer (May 2012 – Aug 2013)	Signbox Microsystems Private Limited
IT Analyst (2.5 years)	ZiSys Technologies Private Limited

Education

Master of Technology (Software Engineering) National University of Singapore (NUS)	2012
Diploma in Management (DM) Madras University, India	2010
Bachelor of Engineering – Computer Science Anna University, India	2008

Achievements at Structo – 3D printing

- Writing the support structure and platform adhesion modules for the software. (Java)
- Implemented modules for motor controls in Keyence PLC
- Implemented functionality for non-manifold object detection. (Java)
http://www.academia.edu/1041354/TopMesh_A_Tool_for_Extracting_Topological_Information_From_Non-Manifold_Objects
- Identify support points/ areas. (Java and C++)
- Adapting software based on the user's needs and machine operations.

Achievements at Pirate3D – 3D printing

- Windows app for communicating with the printer (C# and C++) <http://pirate3d.com/windows>
- R&D - Torrent based network file sharing in the buccaneer 3D printer (Java) R&D
- Implementing file aging algorithm to automatically flush files from the printer. (Java)
<http://users.soe.ucsc.edu/~elm/Papers/cmg99.pdf>
- R&D – Implementing automatic update on the printers, authenticated with the signature generated by Elliptic Curve Cryptography (Java) <http://cs.ucsb.edu/~koc/ccs130h/notes/ecdsa-cert.pdf>
- Writing the Propeller (brain of the printer) – A generic interface which communicates with all types of user interfaces(Java)
- Customizing the slicing engine Cura (Python)
- Driver to communicate with the serial port of the printer. (Java)

Achievements at Signbox Microsystems – Digital Signage Domain

- R&D - Restructuring and integrating **facial recognition** “Intel Aim-suite” with digital signage.
- Re-architecting and prototyping Signbox 4.0
- R&D - Integrating **SMIL players** to the wide range of products with digital signage
- Development of Emergency response signage solutions
- Restructuring and integrating Facebook to digital signage
- Managing outsourcing vendors for individual software development projects

Achievements at ZEiSys Technologies – Logistics Domain

- Gathering Requirements and assisting engineers in prototyping
- Produced working prototypes with RFID, Barcode and GPS
- Co-coordinating the testing procedures between the developers and software testing team.
- Product enhancements and new feature implementer.
- Software Training and UAT assistance for the customers

Other Activities

- Currently building a **bluetooth smart watch** to be integrated with android and ios phones.
- Built a **blue-tooth car** which can be controlled from Android phones.
- Built a **dog tactile feeder** which can drop food based on inputs such as touch, bark and human detection.
- Built an **arduino car which avoids obstacles using ultra-sonic sensor**.
- Wrote an **android news app** which collectively gathers news from Times of India and Hindu news channels (*Not published yet*).

Most projects can be found under GitHub - <https://github.com/francisregan>

Technical Skills

Category	Software / Tool / Technology
Languages/ Technologies/ Frameworks	Android, NodeJS, C++, C#, Microsoft .NET, Java, J2EE, HTML, PHP, CSS, JavaScript, JQuery, XML, AJAX, NUnit, WPF, WCF, JUnit, SPRING, HIBERNATE,.Net 4.5, VB.net.
Application Software	Visual Studio, Eclipse, Android studio, Net-beans and QTP
Tools	MS-SQL/ Ms-Office/Visio/ Share point, GIT, VSS/ mySQL, Eclipse, Oracle 10 and 11
Related Technologies	Linux, Media Codecs, GPS, RfID, Barcode, Android
Domain Knowledge	Digital Signage, Logistics and supply chain management, Disaster recovery systems, Public Sector consumer goods

Other Activities

Date Of Birth
Nationality
LinkedIn

17 Feb, 1988
Indian
<https://sg.linkedin.com/pub/francis-regan/15/134/47b>