TINTU JOSE

Irvine, CA 92612 | (949) 899 7704 | tintjose@gmail.com | https://tintjose.github.io/portfolio_tintu/

SUMMARY

- Experienced in software development, programming, Internet of Things (IoT), user interface (UI) and also in server side development.
- Skilled in Full stack development.
- Skilled in Linux and Windows platform.
- Strong in Data Structures and Algorithms.
- Good analytical and design skills.
- Quickly learn and master new technologies; successful working in both team and self-directed settings along with persistence and focus on result.

TECHNICAL SKILLS

Languages	Java ▪ C ▪ C++ ▪ Python ▪ Android
Database	MySQL ▪ SQL Server ▪ IBM Cloudant ▪ MongoDB
Operating System	Windows ▪ Mac OSX ▪ Linux ▪ Raspbian
Web Technologies	HTML5 ▪ CSS3 ▪ JavaScript(ES2015) ▪ XML ▪ Node.js ▪ React.js ▪ REST API
Protocols	HTTP ▪ TCP/IP
Technical Tools	Eclipse ▪ Android Studio ▪ Arduino IDE ▪ Node-Red ▪ Textwrangler ▪ Xcode ▪ Blockchain ▪ Ethereum ▪ Smart Contracts ▪ Tangle ▪ IOTA ▪ Microsoft Office Suite ▪ G Suite ▪ Gradle ▪ Git

PROJECTS

Institution: *University of California, Irvine* **Date**: 2018

Project Name: GSR & PPG based Ubiquitous Stress Monitoring using Smart Rings in AWS EC2

- Developed an android app to collect raw GSR and PPG bio signal from a BLE-based smart ring.
- Designed REST API with Flask microframework on server side.
- The app sends the data through HTTP API to a AWS EC2 web server and stores it in database using MongoDB and the server calculates the stress level of subject in real time based on GSR and PPG signals.
- Implemented mail notification of stress report analysis to user.
- Improved the collected stress data by removing the noise using filter.

Institution: *ICURO Autonomous Laboratory* ***Date:*** 2018-Present

Project Name: Electric Vehicle and an EV Charging Station Transacting Payments Live with IOTA

- Designed applications for payments through JSP.
- Created machine-to-machine communication between electric car and an EV charging station by utilizing IOTA.

Institution: *University of California, Irvine* **Date**: 2018

Project Name: Implementation of a Real-Time Canny Edge Detection using a Raspberry Pi and Webcam

- Executed the Canny Edge Detector through OpenMP and POSIX threads which reduced execution time by approximately 25%.

Institution: *University of California, Irvine* **Date**: 2018

Project Name: Client/Server with variable One Time Pad security

- Designed TCP/IP networked application which allows a client program to query a simple database which is managed by a server program with One Time Pad security applied for both client and server communication.

Institution: *University of California, Irvine* **Date**: 2017

Project Name: IOT Swarm connecting to IBM Watson Cloud

- Utilized the following technical tools in accomplishing various duties:
  - ESP 8266 devices with photocell sensor and readings presentation;
  - Raspberry Pi as the server for log data submissions;
  - Python code running on the RPi sending the master's lux to node-red and IBM Watson; and
  - IBM Watson for saving and retrieval through Cloudant database to conduct simple statistics on the data.

Institution: *University of California, Irvine* **Date**: 2017

Project Name: Specification and modeling of a canny edge detector for embedded systems Design

- Specified and synthesized performance modelling at a system level using SystemC.
- Enhanced throughput of Canny Edge Detector from 0.97 to 4.17 frames per second (FPS).

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EDUCATION

Master of Science in Embedded and Cyber Physical Systems: Jun 2018
University of California – Irvine, Irvine, CA *(CGPA 3.75/4.00)*

Bachelor of Technology in Information Technology: May 2015
Anna University – Chennai, TN, India *(CGPA 8.69/10.00 ~ Rank Holder)* (Fellowship/Scholarship)

WORK EXPERIENCE

MARIA EXPORTS– CHENNAI, TN, INDIA
Founder **Date**: 2016-2017

- Drove key efforts in boosting the continuous growth of acquisitions and channel partnerships.
- Developed an exporting unit and an online presence, thereby improving business visibility among clients and leading conversion of the proprietory firm to Santa Maria International Pvt. Ltd.
- Formed a new technical team and lead them in new developments to secure business.
- Administered organizational budgets, operational planning and forecasting, primary division goals, and key measurements while monitoring the development of internal controls.

JOGEO ENTERPRISES – CHENNAI, TN, INDIA
Management Associate **Date**: 2015-2017

- Conceptualized and implemented technical initiatives, which improved customer base turnover by 25% in two years.
- Developed office tools using Visual Basic with Microsoft Access as backend for the company account maintenance.
- Managed the company's administration and finance, while dealing with the statutory offices in acquiring licenses.
- Designed back office software for accounts.

F&R DATA ANALYTICAL SYSTEM & SOLUTIONS PVT., LTD.– BANGALORE, KA, INDIA
Technical Intern **Date**: 2015

- Provided hands-on assistance to the team regarding offline survey tool development for market research on Windows platform.

CONFERENCES

Jose, T. (2015). *Implementation of traceability and securing the shared data in the cloud using double encryption scheme*. National Conference of NCONNECT'15, S.A. Engineering College, Chennai, TN, India.

Jose, T. (2015). *Securing the shared data in the cloud using enhanced secure erasure code.* NCRASEM 2015, Tagore Engineering, College, Chennai, TN, India.

Jose, T. (2016). *Deep learning model for cyber bullying detection in the text representation for social media.* International Conference of ICET, ISER, Chennai, TN, India.

Jose, T. (2016). *Secure and privacy off-line micropayments for the resilient device.* International Conference of ICCSIT-PUNE, IRAJ Research Forum, Pune, MH, India.