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 and Passionate about Front end and Back end development.
- Quickly learn and master new technologies; successful working in both team and self-directed settings along with persistence and focus on result.
- Good understanding of Software Development Life Cycle and OOPS concepts.

TECHNICAL SKILLS

Languages	Java ▪ C ▪ C++ ▪ Python ▪ Android
Database	MySQL ▪ SQL Server ▪ IBM Cloudant ▪ MongoDB(NoSQL)
Operating System	Windows ▪ Mac OSX ▪ Linux ▪ Raspbian
Web Technologies	HTML5 ▪ CSS3 ▪ JavaScript [ES6] ▪ React.js ▪ Redux ▪ REST API ▪ AJAX ▪ jQuery ▪ Webpack
Protocols	HTTP ▪ TCP/IP
Technical Tools	Eclipse ▪ Android Studio ▪ Arduino IDE ▪ Blockchain ▪ 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 the client side using 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: *University of California, Irvine*   **Date**: 2018-Present
Project Name: *Burger Builder Application using React and Redux*
- The application uses all the new features introduced in ES6.
- The application is a single page application with proper components and is Mobile Responsive.
- The Application also used proper authentication and from validation and implements routing uses React Router.

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 using MQTT 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%.
- 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).

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.

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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

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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 proprietary 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.

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CONFERENCES

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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.