TINTU JOSE

Irvine, CA 92612| (949) 899 7704 | tintjose@uci.edu

Experience in Software Development and Internet of Things (IoT). Passionate about User Interface (UI) and also in Full Stack Development. Has the ability to quickly learn and master new technologies; can also successfully work in both team and self-directed settings, along with persistence and focus on result.

Portfolio: https://tintjose.github.io/portfolio_tintu/

EDUCATION

University of California – Irvine, CA	**Anna University – Chennai, TN, India**
MS in Embedded and Cyber Physical Systems: Jun 2018 *(CGPA 3.75/4.00)*	B. Tech in Information Technology: May 2015 *(CGPA 8.69/10.00 ~ Rank Holder)* (*Fellowship/Scholarship*)

TECHNICAL SKILLS

Web Technologies	HTML5, CSS3, JavaScript [ES6], React.js, Redux, REST API, AJAX, Webpack, JEST Testing, Babel, SASS, Bootstrap
Languages	Java, C/C++, Python, Android
Operating System	Windows, Mac OS, Linux, Raspbian
Database	MySQL, SQL, MongoDB(NoSQL), IBM Cloudant
Cloud Platform	AWS EC2, AWS S3, IBM Bluemix, Google Cloud Platform
Others	Eclipse, Android Studio, IOTA, Microsoft Office Suite, G Suite, Gradle, Git, HTTP, TCP/IP

PROJECTS

Institution: *University of California, Irvine* **Date**: 2018
Project Name: Stress Monitoring using Smart Rings in AWS EC2
- Developed the client side using Android app to collect raw sensor bio signal from a BLE-based smart ring.
- The app sends the data through 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.
- Improved the collected stress data by removing the noise using filter by 30%.
- ***Technologies: Android, Java, Python, REST API, BLE, Flask microframework, AWS EC2, MongoDB***

Institution: *Personal project* **Date**: 2018-Present
Project Name: Burger Builder Application using React and Redux
- Designed a single page application with proper components and is Mobile Responsive.
- This application also used proper authentication and from validation and implements routing uses React Router.
- ***Technologies: React.js, Redux, AJAX, Webpack.***

Institution: *ICURO Autonomous Laboratory* ***Date:*** 2018
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.
- ***Technologies: JSP, MQTT, Python, IOTA, Tangle, Raspberry Pi.***

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).
- ***Technologies: C++, SystemC, OpenMP and POSIX Multithreading***

Institution: *University of California, Irvine* **Date**: 2017
Project Name: IOT Swarm connecting to IBM Bluemix Cloud
- ESP 8266 devices with photocell sensor are connected using TCP/IP.
- Raspberry Pi acts as the server gets the highest sensor value and send it to IBM cloud.
- IBM Bluemix for saving and retrieval through Cloudant database to conduct simple statistics on the data.
- ***Technologies: Python, IBM Bluemix cloud, IBM Cloudant(NoSQL), Arduino, ESP 8266, Node-Red, Raspberry Pi, TCP/IP.***

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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.

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 proprietary firm to Santa Maria International Pvt. Ltd.
- 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.

VOLUNTEER EXPERIENCE

- **National Service Scheme**   **Date**: 2011-2013
    - Conducted service to Orphanage and Old Age Homes, Dengue Fever and Traffic Regulation & Road Safety awareness programme.
- **Treasurer of Church Youth Team**   **Date**: 2016-2017
    - Raised funds to organize visits to Orphanages, Old Age Homes, conduct games and presentations.
    - Coordinated church activities.
- **Sunday School Teacher**   **Date**: 2012-2017
- **Organizing committee member for College Symposium PRAYUDH'15**   **Date**: 2015