Jathin Sreenivas

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EDUCATION

FRANKFURT UNIVERSITY OF APPLIED SCIENCES
MS in High Integrity Systems
Oct 2019 - Present | Frankfurt, DE
Grade: 1.66 (German Grading System)

PES INSTITUTE OF TECHNOLOGY
BE in Information Science
Aug 2012 - Jun 2016 | Bangalore, IN
Grade: 65%

SKILLS

TECHNICAL SKILLS
Proficient:
Algorithms • Data Structures • OOP • Java • SQL • DBMS • Python • Git • REST • Javascript • Bash/Shell • NodeJS • Real-time • Spring • Design Patterns
Familiar:
Simulation • Angular • C/C++ • Docker • Blockchain • Django • Sensors

OPEN SOURCE

OPENREFINE ⏣
OpenRefine Contributor

CODEZONED ⏣
CodeZoned maintainers

PUBLICATIONS

[1] A. Hari, J. Sreenivas, N. S. Kannan, and Saritha. Accident avoidance and detection. *IJLTEMAS*, 2016.

[2] V. Kamath, J. Sreenivas, and K. Yelpale. Blockchain solution to healthcare record system using hyperledger fabric. *ResearchGate*, March 2021.

[3] J. Sreenivas and V. Bhat. Scheduling simulator. *ResearchGate*, August 2020.

[4] J. Sreenivas, V. Bhat, and V. Gopalakrishnarao. Fall detection system using sensors embedded in smartphones. *ResearchGate*, August 2020.

EXPERIENCE

GERMAN AEROSPACE CENTER (DLR) | Master Thesis Student
Mar 2022 - September 2022 | Brunswick, DE
- Research on "Response Time Analysis of Tasking Framework Task Chains".
- Creating execution models and analyzing their response time that runs on a multi-core processor for subtasks with different priorities, and sporadic tasks.

AMAZON | SDE Intern
Mar 2021 - Aug 2021 | Berlin, DE
- Completed through an entire project delivery life-cycle.
- Full stack development, wrote and reviewed code in Java, Spring boot, JSP, Angular, Jquery, Unit testing (Junit, angular unit tests) and CSS.
- Launched 100% on the Amazon retail app and monitored metrics - response time, CPU, memory etc, using A/B Testing, cloud watch.
- Resulted in increment of page views by 78% on average World wide.

SOFTWARE AG | Working student R&D University Relations
Mar 2020 - Jan 2021 | Darmstadt, DE
- Automated processes for handling education packages by multiple RESTful services to improve efficiency and handling of errors on the production system.
- Development of a new university relation website, built using REST, Spring boot, Angular and keycloak.

NTT DATA FA INSURANCE SYSTEMS | Senior Software Engineer
Sep 2016 – Jul 2019 | Bangalore, IN
- Developing the product to cater to customer requirements using RestFul Web services, Spring IOC, Java, HTML, CSS, JavaScript, ibatis, MYSQL.
- Developed a utility to automate the web logic deployment process using Java, WLST, Batch script which improves the duration by nearly 90%.

PROJECTS

BLOCKCHAIN IN MEDICAL ⏣ R⁶ Sep 2020 – Mar 2021
Familiarizing with blockchain technology using Hyperledger Fabric, to develop a prototype for a Medical scenario, to write smart contracts and to scientifically reflect on the use of blockchain. Stack: Docker, Bash/Shell, Node.js, Angular

OPENSTACK ⏣ R⁶ Sep 2020 – Feb 2021
Deployment of a multi-node IaaS OpenStack private cloud infrastructure.
Stack: Microstack, Bash/Shell, OpenStack APIs, cURL

FALL DETECTION SYSTEM IN SMARTPHONES ⏣ R⁶ Mar 20 – Jul 20
A new fall detection system implemented in an android application to detect a fall using sensors embedded in smartphones.
Stack: Java, Android, Sensors - Accelerometer, Gyroscope, Magnetometer

SCHEDULING SIMULATOR ⏣ R⁶ Mar 2020 – Jul 2020
Built a Django Application for simulating real-time scheduling algorithms and display the behavior of such algorithms based on predefined task set.
Stack: Python, Django, JavaScript, HTML, CSS

ACCIDENT AVOIDANCE AND DETECTION ⏣ 📄 Oct 2015 – Apr 2016
This projects detects an accident in a car using sensors connected to an Arduino and contacts the nearest ambulance using a GSM and a Django Application for help.
Stack: Django, Arduino, GPS/GSM, Accelerometer, MQ3, Ultrasonic, Piezoelectric.