Jathin Sreenivas

jathinsreenivas.netlify.app | jathinsreenivas@gmail.com | ⌂ | R⁶ | in

EDUCATION

FRANKFURT UNIVERSITY OF APPLIED SCIENCES

MS in High Integrity Systems
Oct 2019 - Present | Frankfurt, DE
Grade: 1.66 (German Grading System)
Graduation Date: September 2022

PES INSTITUTE OF TECHNOLOGY

BE in Information Science
Aug 2012 - Jun 2016 | Bangalore, IN

SKILLS

TECHNICAL SKILLS

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

OPEN SOURCE

OPENREFINE ⌂

OpenRefine Contributor
Contributed to fix bugs, implement new features and learning using Java and Javascript.

LINKS

ResearchGate:// Jathin_Sreenivas
Github:// sjathin
LinkedIn:// jathin-sreenivas

PUBLICATIONS

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

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

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

RESEARCH EXPERIENCE

GERMAN AEROSPACE CENTER (DLR) | Master Thesis Student
Mar 2022 - Present | Brunswick, DE
- Response Time analysis of Real-Time systems modeled as a set of parallel DAG tasks executing on a global multi-core processor. Each task is periodic/sporadic and executed based on fixed-priority scheduling using a newly created execution model. Implemented in python for a system in the satellite.
- An improvement to the previous research, where only periodic tasks executed in the FCFS algorithm were considered.

EXPERIENCE

AMAZON | SDE Intern
Mar 2021 - Aug 2021 | Berlin, DE
- Designed, implemented, and delivered an all customer review images page using Java, Spring, JSP, Angular, Jquery, Junit, angular unit tests, and CSS worldwide on the Amazon Retail Mobile app leading to an increase in the number of views by 78%
- Monitored metrics after release - resource usage (such as CPU, memory), using A/B Testing, cloud watch on AWS.

SOFTWARE AG | Working student R&D University Relations
Mar 2020 - Jan 2021 | Darmstadt, DE
- Optimized RESTful services (Java) to automate the handling of errors and reduced the number of production errors by 30%.
- Designed and implemented a new university relations website, built using REST (Java), Spring boot, Angular, and keycloak.

NTT DATA FA INSURANCE SYSTEMS | Senior Software Engineer
Sep 2016 – Jul 2019 | Bangalore, IN
- Developed and delivered an insurance web application using Restful Web services, Spring, Java, JavaScript, ibatis, MYSQL, and HTML/CSS for 3 clients.
- Designed, implemented, and delivered an end-to-end Round Robin feature which delegates the workload, used by 5000+ insurance agents, saving hours and leading to an increase in the efficiency at the clients' workplace.
- Implemented a utility to automate the WebLogic deployment process using Java, WLST, and Batch script which reduced the average deployment times by 90%.

PROJECTS

FALL DETECTION SYSTEM IN SMARTPHONES ⌂ R⁶ Mar 20 – Jul 20
A fall detection system in an android application to detect a fall using just the sensors embedded in smartphones achieving a sensitivity of 0.7708 and specificity of 0.7777. Stack: Java, Android, Accelerometer, Gyroscope, Magnetometer

SCHEDULING SIMULATOR ⌂ R⁶ Mar 2020 – Jul 2020
Built a Django Application for simulating real-time scheduling algorithms used by my Professors and 1000+ students at the university to understand the working of the algorithms. Stack: Python, Django, JavaScript, HTML, CSS

BLOCKCHAIN IN MEDICAL ⌂ R⁶ Sep 2020 – Mar 2021
Built a blockchain solution using Hyperledger Fabric, to solve the the current EHR problems in the health care industry. Stack: Hyperledger Fabric, Docker, Bash/Shell, Smart contracts, Node.js, Angular