

# Jathin Sreenivas

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## EDUCATION

### FRANKFURT UNIVERSITY OF APPLIED SCIENCES

MS IN HIGH INTEGRITY SYSTEMS  
Oct 2019 - Sep 2022 | 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

### Programming Languages

Java • Python • SQL • Bash/Shell •  
C/C++ • JavaScript • TypeScript

### Backend & Cloud

Spring • REST • Microservices • AWS  
• Lambda • Step Functions •  
CloudWatch • DynamoDB • Athena •  
EC2 / Fargate • AWS CDK • IaaS •  
Docker • Django • NodeJS

### Systems & Architecture

Algorithms • Data Structures •  
System Design • Design Patterns •  
OOP • Real-Time Systems •  
Multi-thread Scheduling

### Frontend

Angular • React

## 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. Response time analysis of tasking framework task chains. Master's thesis, Frankfurt University Of Applied Sciences, September 2022.

## EXPERIENCE

### AMAZON | SDE

Nov 2022 - Present | Berlin, DE

- Designed and deployed cloud-native microservices on AWS, driving scale, reliability, and operational excellence, directly impacting millions of global customers on Amazon's retail website.
- Managed operational excellence, load balancing improvements, proactive scaling strategies, and CloudWatch alarms contributing to 99.99%+ availability SLAs.
- Championed IaC practices using AWS CDK, maintaining high standards for code quality, security, and deployment automation.
- Mentored new engineers and drove best practices across design reviews, operational readiness, and testing culture.

### GERMAN AEROSPACE CENTER (DLR) | MASTER THESIS

Mar 2022 - Sep 2022 | Brunswick, DE

- Analyzed real-time systems and developed algorithms for improved task scheduling and response time analysis.
- Enhanced sporadic task modeling, reducing pessimism in response time calculations.
- Published research on real-time system response time analysis.

### AMAZON | SDE INTERN

Mar 2021 - Aug 2021 | Berlin, DE

- 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.

### NTT DATA FA INSURANCE SYSTEMS | SR. SDE

Sep 2016 - Jul 2019 | Bangalore, IN

- Developed and optimized performance analysis tools for cloud-based networks and services, enhancing scalability and reliability.
- Led end-to-end testing and optimization of cloud infrastructure, improving service delivery and reducing latency.
- Collaborated cross-functionally to integrate advanced network monitoring and performance diagnostics.

## PROJECTS

### FALL DETECTION SYSTEM IN SMARTPHONES

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

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 & DETECTION

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.

Stack: Django, Arduino, GPS/GSM, Accelerometer, MQ3, Ultrasonic, Piezoelectric.