

Kush Bisen

Software Engineer | PhD Researcher

✉ mailkushbisen@gmail.com 🌐 www.kushbisen.top 💻 @argahsuknesib 🏠 kushbisen 📍 Gent, Flanders

Software Engineer and PhD Researcher with expertise in building software around Stream Processing, Data Pipelines and Linked Data technologies. Interested in solving complex problems with efficient solutions. I am passionate about exposing myself to new technologies and utilize them to solve problems needed in the industry and research.

Experience

PhD Researcher

UGent - imec (IDLab) - *SolidLab Flanders*

📅 2022 August – Present 📍 Ghent, Belgium

- Researching solutions to scale stream processing in the decentralized ecosystem with scalability services.
- Developing query optimization techniques for efficient data retrieval and re-use in decentralized environments.
- Developing privacy-preserving data methods which enhance user data security and compliance with data protection regulations such as GDPR.
- Involved in academic writing and publishing research findings in reputed outlets.

Research Intern

Laboratoire Hubert Curien - *The Disability Wikibase*

📅 2022 Jan. – 2022 Jul. 📍 Saint-Étienne, France

- Contributed to the development of a specialized Wikibase for disability-related data, by converting unstructured data files into structured data within the Wikibase framework
- Worked on data modeling and ontology design to ensure accurate representation of disability-related information.
- Collaborated with York University, Canada and The QA Company towards a comparison of various search techniques on the Disability Documents.
- Published research findings in a reputed conference.

Research Intern

École des Mines de Saint-Étienne - *Robot Behaviour Learning Simulator*

📅 2021 April. – 2021 Aug. 📍 Saint-Étienne, France

- Developed a ROS based simulator for Turtlebot robots to Simultaneous Navigation and Map the environment.
- The simulator utilized Dijkstra's algorithm for optimal pathfinding from a location to the target.
- The simulator was utilized as training data for reinforcement learning algorithms by the researchers further after my internship.

Research Intern

Indian Institute of Technology (IIT) BHU - *Crowd Count Analysis with Deep Learning from Images*

📅 2019 Dec. – 2020 Jan. 📍 Varanasi, India

- Developed a deep learning model using Convolutional Neural Networks (CNNs) to estimate crowd counts from images.

Objective

Utilizing my problem-solving skills as a researcher and a strong passion for learning to address complex challenges in industry and contribute to innovative solutions.

Education

Ghent University

2022 - Present Ghent, Belgium

Ph.D. in Computer Science Engineering

Université de Lyon

2020 - 2022 Saint-Étienne, France

M.Sc. in Computer Science

SRM Institute of Science and Technology

2016 - 2020 Chennai, India

B.Tech in Computer Science Engineering

Technical Expertise

Stream Processing	<div></div>
Linked Data	<div></div>
Full Stack Web Development	<div></div>
ETL/ELT Pipelines	<div></div>
Data Analysis	<div></div>
Java	<div></div>

Skills

• TypeScript • Golang • JavaScript • Python • Java • React • RDF • Node.js • Databases • AWS • Kubernetes • CI/CD • MQTT • R • Docker • Git • HTML/CSS • SQL • SPARQL/ RSP-QL

Tools

• GitHub • Notion • VSCode • Linux • Kafka • Apache Flink

Achievements/Certifications

Charpak Master's Scholarship

Awarded the prestigious Charpak Master's Scholarship for academic excellence to pursue my Master's Degree in France.