

# Aaruni Kaushik

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## WORK EXPERIENCE

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- **University of Kaiserslautern-Landau** Kaiserslautern, Germany  
May 2023 - Present  
Scientific Researcher  
Principal developer of MaRDI Packaging System  
Developer for OSCAR
- **Fraunhofer ITWM - MESHFREE** Kaiserslautern, Germany  
September 2019 - March 2023  
Software Developer(HiWi)
  - Tickets: Handled 32 service tickets of varying importance.
  - Notable Work:
    1. Developed a workflow to render simulation results in Blender.
    2. Enabled quick and incremental builds for documentation.
    3. Implemented a unit testing framework with code coverage CI/CD integrations.

## EDUCATION

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- **University of Kaiserslautern-Landau** Kaiserslautern, Germany  
October 2018 - March 2023  
Master of Science - Mathematics  
**Master Thesis:** Investigating a Levelled Fully Homomorphic Encryption scheme by providing an explicit implementation in `python` and attacks based in Data Science
- **St. Joseph's College (Autonomous)** Bangalore, India  
April 2015 - March 2018  
Bachelor of Science - Economics, Mathematics, Statistics  
**Bachelor Thesis:** Finding and proving simple number theoretic properties

## SKILLS SUMMARY

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- **Programming Languages:** Julia, Python, Bash, Fortran
- **Tools:** Git, Bubblewrap, OSTree
- **Platforms:** Linux, Arduino
- **Languages:** English, German (B1)

## CERTIFICATIONS

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- **MPI: A Short Introduction to One-Sided Communication** February 2021  
Partnership for Advanced Computing in Europe (PRACE) | Future Learn

## VOLUNTEER EXPERIENCE

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- **Web Administrator for ISAK - Indian Students Association Kaiserslautern** Kaiserslautern, Germany  
October 2018 - March 2023  
Managed the website and handled the official email for ISAK