

# Akash Panda

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## EXPERIENCE

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- **AMD India Pvt. Ltd.** Bengaluru, India  
*Sr. Silicon Design Engineer* April 2021 - present
  - Part of Server Performance Group
  - Actively involved in performance analysis
  - Internal tools development
- **Info Edge (India) Ltd. (Naukri.com)** Noida, India  
*Lead Engineer* June 2015 - July 2018
  - Led Naukri's FirstNaukri team, participated in their roadmap definition, did code reviews, and established good engineering practices.
  - Actively involved in designing and development, guiding Software Developers and Senior Software Developers.
  - Developed and deployed end to end micro-services.
  - Developed various module (frontend and backend) to suit product requirements. Built and deployed scalable, highly available and modular software products.
  - Identified and suggested new technologies for enhancing product value.
  - Involved in Health check of applications and servers.

## EDUCATION

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- **Indian Institute of Science** Bengaluru, India  
*Master of Technology (Research) - Computer Science and Automation; GPA: 8.3* July 2018 - April 2021  
*Selected Courses: Computer Architecture, Operating Systems*
- **National Institute of Technology(NIT) Agartala** Agartala, India  
*Bachelor of Technology - Computer Science and Engineering; GPA: 8.66* July 2011 - May 2015  
*Selected Courses: Computer Organization, Operating Systems, Data Structures, Analysis Of Algorithms, Networking, Databases*

## PUBLICATIONS

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- **nuKSM: NUMA-aware Memory De-duplication on Multi-socket Servers:** In Proceedings of 30th International Conference on Parallel Architectures and Compilation Techniques (PACT), September 2021

## SKILLS SUMMARY

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- **Languages:** C, C++, PHP, Go, SQL, Bash, Python
- **Frameworks:** LAMP, CodeIgnitor, Symphony
- **Tools:** GIT, Svn, MySQL, Redis

## ACADEMIC PROJECTS

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- **nuKSM: NUMA-aware Memory De-duplication on Multi-socket Servers (M.Tech. Research Thesis Project):** NUMA-aware KSM, a.k.a., nuKSM, that makes judicious decisions about the placement of de-duplicated pages to reduce the impact of NUMA, unfairness, and avoid priority subversion.
- **Semantic Information of Deduplicated Pages:** Developed a tool to get the semantic information of the pages being deduplicated by Kernel Samepage Merging. Tech: C, BASH, Python
- **Prevalence of Page Splintering (Operating Systems Course Project):** Evaluated amount of page splintering happening on running different workloads in a virtualized environment. Tech: C, BASH, Python
- **Heterogeneous Data Race Exhibiting Programs (Computer Architecture Course Project):** Looked into different workloads for heterogeneous systems and then came up with a set of programs that have the heterogeneous data race in them. Tech: C++, CUDA

## CORE COMPETENCIES

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- Problem Solving
- Leadership & Teamwork
- Commitment to Customer Excellence

## EXTRACURRICULAR ACTIVITIES

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- Current Player for IISc Gymkhana Club in KSCA Division IV — KSCA ID : KSCAA10483
- Served as Convener, IISc Cricket Club during 2019-2021.
- Served as Web Volunteer for IISc CSA Open Day 2019 and 2020.
- Represented NIT Agartala in Cricket at various events during 2011-2015.