Akash Panda

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OBJECTIVE

Highly motivated and accomplished computer science professional with a Master's degree in Computer Science. Seeking opportunities to leverage expertise in performance analysis, software development, and engineering to contribute effectively to a dynamic and innovative team.

EXPERIENCE

- **AMD India Pvt. Ltd.**   Bengaluru, India
  Sr. Silicon Design Engineer   *April 2021 - present*
    - Part of Server Performance Group, actively involved in performance analysis and modelling.
    - Analyzing micro-benchmarks, real-world workloads for analysis and estimation of performance overhead of Confidential Computing
    - Proficiently identifying performance bottlenecks and resolving issues to ensure optimal performance.
    - Development of internal tools to streamline processes and enhance productivity.

- **Info Edge (India) Ltd. (Naukri.com)**   Noida, India
  Lead Engineer   *June 2015 - July 2018*
    - Led Naukri's FirstNaukri team, driving roadmap definition and implementing engineering best practices.
    - Skillfully guided and mentored Software Developers in designing and developing robust solutions.
    - Successfully developed and deployed end-to-end micro-services with a focus on scalability and availability.
    - Developed various module (frontend and backend) to suit product requirements. Built and deployed scalable, highly available and modular software products.
    - Pioneered the adoption of cutting-edge technologies to enhance product value.
    - Conducted comprehensive health checks of applications and servers to ensure optimal performance.

EDUCATION

- **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

- **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

ACADEMIC PROJECTS

- **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

SKILLS AND CORE COMPETENCIES

- **Competencies**: Performance Analysis, Software Development, Debugging and Troubleshooting, Leadership & Teamwork
- **Languages**:   C, C++, PHP, SQL, Bash, Python
- **Tools**:   GIT, Svn, MySQL, Redis

EXTRACURRICULAR ACTIVITIES

- Current Player 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.