Pranav Dangi

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Github: github.com/pruhnuhv

EDUCATION

National University of Singapore (NUS)

Singapore

Email: dangipranav@gmail.com

Website: pranavdangi.com

PhD Student, School of Computing

2024 - 2028

Birla Institute of Technology and Science, Pilani (BITS Pilani)

Pilani, India

B.E. (Hons.) Electrical and Electronics Engineering

2019 - 2023

Thesis: Addressing Sparsity through Algorithms, Memory and Compute

PUBLICATIONS (*EQUAL CONTRIBUTION) (CHRONOLOGICAL ORDER)

- Pranav Dangi, Bai Zhenyu, Rohan Juneja, Zhaoying Li, Tulika Mitra. "A Data-Driven Dynamic Execution Orchestration Architecture", Under Review
- Zhaoying Li*, **Pranav Dangi***, Chenyang Yin, Thilini Kaushalya Bandara, Rohan Juneja, Cheng Tan, Tulika Mitra. "Enhancing CGRA Efficiency through Aligned Compute and Communication Provisioning", **ASPLOS'25**
- Pranav Dangi*, Thilini Kaushalya Bandara*, Saeideh Sheikhpour, Tulika Mitra, Lieven Eeckhout. "Sustainable Hardware Specialization", ICCAD'24
- Pranav Dangi, Bai Zhenyu, Rohan Juneja, Dhananjaya Wijerathne, Tulika Mitra. "A Generalized Accelerator for Variably Sparse Matrix Computations in ML", PACT'24
- Bai Zhenyu, Wu Dan, **Pranav Dangi**, Dhananjaya Wijerathne, Pavan Miriyala, Tulika Mitra. "Irregular Data-aware dynamic scheduling of workloads on heterogeneous systems", **Under Review**
- Bai Zhenyu, **Pranav Dangi**, Huize Li, Tulika Mitra. "Scalable, Efficient Window-Attention Based Transformer Acceleration", **DAC'24**

Grants, Scholarships and Achievements

- Singapore President's Graduate Fellowship (Highest Fellowship for Academic and Research Achievements)
- NUS Research Incentive Award (Award for Outstanding Research Potential)
- Travel Grant: ASPLOS 2025, DAC 2024
- BITS IPCD Undergraduate Thesis Award (Award for Outstanding Undergraduate Research)
- Google Summer of Code Fellowship, 2021
- BITS Institute Dean's MCN Scholarship, 2019-20, 2021-23 (Top 5% of the Department)

RESEARCH EXPERIENCE

•	National University of Singapore (NUS)	Singapore
	Research Assistant, School Of Computing	Jan 2023 - Aug 2024
•	TCS Research and Innovation Labs	Mumbai/Remote
	Research Intern	Aug 2022 - Dec 2022
•	Oysters Lab, EEE Department	BITS Pilani
	Research Assistant	Jan 2022 - Nov 2022

INDUSTRY & OPEN-SOURCE EXPERIENCE

Intel	Bangalore
Intern	Jun 2022 - Aug 2022
Google Summer of Code - RTEMS	Remote
Fellow	May 2021 - Aug 2021
Nihon Communications	Remote
Intern	May 2020 - July 2020

Extra Curriculars

•	Teaching Assistant GEI1000 Computational Thinking	Singapore Sept 2024 – Dec 2024
•	Undergraduate Teaching Assistant CS F342 Computer Architecture; EEE F313 Analog, Digital VLSI Design	Pilani, India Jan 2022 – Dec 2022
•	StuCCAn (Head of Cultural Fest) Department of Controls	Pilani, India Aug 2022 – Dec 2022