Anmol Panda

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EDUCATION

BITS PILANI
B.E. Hons. in Computer Science
July 2016 | Goa, India
Cum. GPA: 8.1/10

Erasmus exchange studies
Aug '15 - Jan '16 | Uppsala, Sweden
Dept. of Information Technology, Uppsala University

ST. FRANCIS D'ASSISI
Grad. May 2010 | Mumbai, India

COURSEWORK

UNDERGRADUATE
Real Time Systems + Practicum
Microprocessor - Programming and Interfacing
Human Computer Interaction
Effective Public Speaking
International Relations
Development Studies

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Shell • Python • LaTeX • C
Over 1000 lines:
C++ • C# • PHP • Assembly • JavaScript
Familiar:
P4 • Android • MySQL • CUDA • OpenCL

ACHIEVMENTS
2015 Erasmus scholarhship for exchange studies
2014 Mitacs Globalink Internship
2013 Best Persuasive Speaker, EPS (class of 60 stduents)
2009 Best Student Award, High school
2009 School Captain, High school

COMMUNITY SERVICE

ABHIGYAAN
• Taught mess workers basic and high school level mathematics for five semesters, an hour at night, twice a week.
• Organized community events like Children's Day for children of security guards and faculty, sporting events for mess workers and donation drives.

RESEARCH

MICROSOFT RESEARCH INDIA | Research Fellow
June 2018 - present | Bengaluru, India
- I work with Aseem Rastogi and Akash Lal in the Programming Languages and Tools group. Our project enforces confidentiality in low level C code by separating the critical, private data from publicly accessible memory using high level compiler annotations.

IIT DELHI | Senior Project Assistant
Aug 2016 - June 2018 | New Delhi, India
- Worked under the guidance of Prof. Sorav Bansal on a project to deploy compiler optimizations in software packet processing pipelines by leveraging memory level parallelism through re-ordering and merging of lookup tables and batching and efficint scheduling of memory intensive instructions. We show up to 280 pc gain in packet throughput for micro-applications and up to 169 pc for complex applications.
- This work has been submitted to OSDI 2018.

GPU VERIFICATION TOOLS | Undergraduate Researcher
Jan 2016 – May 2016 | BITS Pilani, Goa, India
- The thesis involved a survey of existing GPU verification tools, namely GPUVerify and GKLEE to assess their use cases, kernel bugs like data races and divergent barriers that they reported, and their usability and learn-ability aspects.
- The thesis was published in the IEEE conference of Parallel and Distributed Grid Computing at JUIT, Waknaghat, HP, India.

PROJECTS

MITACS GLOBALINK RESEARCH INTERNSHIP | Globalink Research Intern
May 2015 - Aug 2015 | Prince George, BC, Canada
- Worked under the supervision of Dr. Alex Aravind along with Vignesh Muralidharan at the University of Northern British Columbia to assess the viability, accuracy and efficiency of four GPS-free de-localization algorithms to find positions of mobile bots.
- Goal of the project was to use robots to automatically seed farms.

POSITIONS

CENTER FOR TECHNICAL EDUCATION | Instructor
Aug 2014 - May 2015 | BITS Pilani, Goa, India
- Taught OOP concepts in the first module of two courses - Application Programming in C# and Introduction to Programming in Java - in two separate semesters to a class of 20 - 22 students, along with two other instructors.

TEACHING | Teaching Assistant
Aug 2013 - May 2015 | BITS Pilani, Goa, India
- Effective Public Speaking: Presented sample speeches for two different sections (120 students) and mentored students to improve oral communication skills along with one more TA.
- Microprocessors - Programming and Interfacing: Prepared solutions along with three more TAs for tutorial sessions and resolved queries of students in a class of 120.