Priyanka Nath

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Objective

Seeking an internship in computer science to actively take part in research and enhance my skills & knowledge.

Education

KIIT University – Bhubaneshwar, India *July, 2015 - Present*
Bachelor of Technology, Information Technology *Current GPA: 8.64 / 10.0*

South Point High School – Kolkata, India

All India Senior School Certificate Examination, CBSE (Grade 12) *June, 2015 - 76.2%*
Stream: Science with Computer Science as additional subject

Secondary Examination, WBBSE (Grade 10) *May, 2013 - 87.42%*

Experience

Indian Statistical Institute – Kolkata, India *May, 2017 - July, 2017*
Research Intern under the Summer Internship Program in Cryptology 2017,
under the initiative of *R. C. Bose Centre for Cryptology and Security*, Indian Statistical Institute,
funded by the *'Rx Lab Program'* of Microsoft Research India.

Projects

System Call Analysis Application – Indian Statistical Institute *May, 2017 - July, 2017*
- Created a system call pattern matching application in Python for the Defence Research and Development Organisation(DRDO) which uses American Fuzzy Lop(AFL) generated inputs to check for vulnerabilities in a software/executable.

Naive Bayes Classifier for MNIST dataset
- Implemented a Naive Bayes Classifier from scratch for handwritten digit recognition using MNIST digit dataset.

Principal Component Analysis using GPUs
- Implemented dimensionality reduction by applying PCA on Iris dataset using CUDA-C.

SpaceTurtle: An Introduction to Turtle Programming
- Designed a teaching kit for kids in a Mozilla Hackathon, using Python's turtle library, to introduce to programming and encourage them to solve problems through logical thinking.

Bookmarkz: A Social Bookmarking App
- Developed a social bookmarking app using Django Python web framework where a user can create an account, share bookmarks, vote on shared bookmarks, etc.

MysticSquare: An Android Game
- Created a Mystic-Square (also known as 15 puzzle) game for Android using Android Studio.

Technical Skills

Programming – Coded mainly in **C, Python.** Proficient in coding with C++ and Java.
Web – HTML, CSS, Django, Javascript.
Development Tools – Android Studio, Android SDK, SQL (MySQL, Oracle), scikit, Matlab, Latex.

Relevant Courses Taken

Linear Algebra, Data Structures & Algorithms, Object Oriented Programming, Probability & Statistics.

Honors & Achievements

- Secured 4th position in the 4th CSI National Programming Contest among 11,000 participants.

- Won 2nd place in HelloWeb Hackathon 2016 hosted by the MozillaBBSR Club by designing a teaching kit to introduce kids to programming.

- Qualified for Round 1 of the Facebook HackerCup 2017.

- Secured the highest grade "O" in Object Oriented Programming in B. Tech. 2nd Semester & Web Technology in 3rd Semester.

- Secured a perfect score (100%) in Mathematics in state-wide Secondary Examination, 2013 among 1,020,000 students.

- Awarded Chitroprobha Upadhi Certification by Bengal Music College, Kolkata, India in 2012 on completing a 6–year course on Painting.

- Selected as one of 20 student judges from MP Birla group of schools for the cultural committee MP Birla Puja Utkarsh Samman 2014.