Surya Priy

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Final Year B.Tech Student
Computer Science and Engineering
National Institute of Technology Patna

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Academic Details

Year	Degree	Institute	Percentage/CGPA
2015-Present	B.Tech in Computer Science and Engineering	**National Institute of Technology** Patna	**CGPA = 8.45/10**
2015	Class XII CBSE-AISSCE	**DAV Public School, Khagaul** Patna	**95.6%** 98% in Computer Science
2013	Class X CBSE-AISSE	**Dr. GL Dutta DAV Public School** Patna	**CGPA-10/10** 10 Pointer in all subjects

Work Experience

Zauba.Cloud January 2019 – Present

Software Development Engineering Intern

Working with the team on building cloud computing platform that accelerates product development, reduces cost and increases overall performance and reliability of assets on Amazon Web Services, GCP & Azure. This will increase the reliability and decreases the bill. I have also developed the real time workload simulation for the system so that the platform can be analysed for real time environment.

Technologies Used : **Docker, Kubernetes, AWS, Ceph**

GeeksForGeeks January 2018 – June 2018

Technical Content Writer Intern

I have worked with GeeksforGeeks and contributed 50+ articles on algorithms, machine learning and neural networks. To see all my contributed articles you can refer to this link here. Contributed Articles

Projects

Routine-Activity-Augury

An Android app to track the user's normal activity using the mobile sensors. The sensor data is collected and send to the server. At the server these data are analysed and feed to the Machine Learning module for training. In approx 4-5 months the machine will be trained. Now any abnormalities in the user's routine will be notified to its guardian so that if user is in any danger situation then they can take some appropriate steps.

Technologies Used : **Android, Recurrent Neural Network**

Disease_Prophecy

This project involved the prediction of diseases on the basis of symptoms collected for a particular Disease. The symptoms are classified based on the classes of diseases on which they belong so that we can get the probability of each disease from the symptoms.

Technologies Used : **Python, Decision Tree Classifier**

OpenSource Contribution

Chapel: I have implemented several important functions for the Chapel-Language including string and Maths function for the present release of Chapel version. I have also corrected the Chapel Tmbundle so that there will be correct syntax highlighting for the escape character. Some of my important work at Chapel are :

- Addition of #string_placeholder in Chapel tmbundle to resolve issue #6899
- isAbsPath function issue #6010
- Creating GCD function in Math.chpl file

and some other are there which you can refer in my Github profile

HPX: I have implemented several arithmetic performance counter for HPX so that it will be lot easier to understand the different performance of the system. The major work is implementation of histogram performance counter to analyse the different statistics of other performance counter with the help of histograms. Some of my work at HPX are:

- Addition of new arithmetic performance counter
- Histogram Performance Counter implementation

Achievements and Awards

- Won **Technical Content Writing Competition** organised by **GeeksForGeeks** in the Algorithm section.
- Rewarded **"Individual Contributor"** of a present **Chapel-1.17** version (*an open source project*).
- Secured **1st rank in "Algo-z-ripper"** a programming contest of NIT Patna among 300 students.
- Received **4 silver medals** and having rank in **O(logn)** with **96.8 percentile** in **Hackerrank** coding platform
- **School Topper** in Intermediate.
- Secured **2nd rank** in **Panorama,** tech event of NIT Patna fest.
- **"Best Member" award** for showing good professional skills in managing the "**Sankalp**"- A unit of NSS, NIT Patna in teaching and voluntary work

Relevant Courses

- **Computer Science:** Design and Analysis of Algorithms, Data Structures , Computer Networks, Operating Systems, Compiler Design, Analysis and Design of Algorithms, Automata, Object Oriented Methodology, Soft and Evolutionary Computing, Computer Architecture, Network Security, Machine Learning
- **Mathematics:** Graph Theory, Discrete Mathematics, Statistical Methods and Algorithms, Probability Theory, Linear Algebra, Matrix Theory.

Computer Skills

- **Programming Languages:** Java, C, C++, Golang, MySQL, Python, JavaScript, PHP, Oracle 10g
- **Tools:** Docker, Kubernetes, AWS
- **Java Frameworks:** Struts, Servlet, JSP
- **Development Environments :** Android Studio, Netbeans and Eclipse

Coding Profile Handles

Hackerearth: surya105 **Hackerrank: 1998suraj** **:suraj1124**

Position Of Responsibility

- **Campus Ambassador** of **GeeksForGeeks** of NIT Patna for session (2017-2018).
- **"Newcomer Member"** of **Coala** Organization (*a open source project*) .
- Active member of **Sankalp** - A unit of **NSS**, NIT Patna where volunteers teach students of every background without fee.