

Vatika Harlalka

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EDUCATION

IIIT HYDERABAD

B.TECH IN COMPUTER SCIENCE

MS IN COMPUTATIONAL NATURAL SCIENCES

Expected May 2018 | Hyderabad

Cum. GPA: 8.67/10

BIRLA HIGH SCHOOL

Grad. May 2013 | Kolkata, India

Score: 93%

LINKS

Github:// [vatika](#)

LinkedIn:// [vatikaharlalka](#)

Wordpress:// [vatikaharlalka](#)

COURSEWORK

COMPUTER SCIENCES

Computer Programming

Computer System Organisation

Data Structures

Algorithms

Operating Systems

Software Design

Statistical Methods in AI

NATURAL SCIENCES

General Physics

General Structural Chemistry

Introduction to Biology

Thermodynamics and Statistical

Mechanics

Bio-molecular Structures and

Supramolecular Chemistry

SKILLS

PROGRAMMING

Proficient

C • Matlab • Python • \LaTeX

Intermediate

Javascript • PHP • CSS • Assembly

Familiar:

Windows SDK • Yii • Android

EXPERIENCE

LINUX KERNEL | OUTREACHY INTERN (OPW)

May 2015 - Aug 2015

Reducing OS jitter for HPC applications and real-time applications by improving the Full Dynamic Ticks implementation of the time subsystem.

VIGYAAN IT SERVICES | WEB DEVELOPER

Aug 2014 - Nov 2014

Developed App8IT, an enterprise app store designed in a PHP framework Yii. It enables developers to upload the binary packages of their apps which can then be further analyzed and approved by the companies QA analysts. They can then be hosted on the Appstore, available for download by users.

PROJECTS

COMPUTATIONAL MODEL OF BRAIN CONNECTIVITY | MAY 2015 - JULY 2015

Prof. Dipanjan Roy

The dynamic field model approximation was used to simulate brain dynamics.

Multistability in firing rates was observed after a critical value of inter-cortical global connectivity. The brain areas were clustered on the basis of firing rate and intra-cluster connectivity was analyzed.

AUTOMATED ESSAY GRADING | AUG 2015 - NOV 2015

Prof. Avinash Sharma

The project aims to automate essay grading by extracting suitable feature set from a training set of graded essays and then modeling the data in a regression model to predict scores using various classification algorithms.

OSVH | SEP 2015

Prof. Suresh Purini

A simple kernel designed to perform unsigned arithmetic calculations using BODMAS.

CSHELL | OCT 2015

Prof. Suresh Purini

A linux shell which runs basic commands with redirection and piping written in C.

AWARDS AND ACHIEVEMENTS

2015 Presented a poster at CBC, 2015

2015 Deans Academic List awarded for being in the top 5% of the batch

2015 Admin of OSDG(Open Source Developers' Group) in college

2015 Coordinator for Literary Events in the college fest, Felicity

2015 Managing Editor of Ping! the college newsletter

2015 Student Hostel Committee Member

2013 Ranked 4200 in AIEEE-2013 with a score of 253 among 1.3 million students

2010 Diploma in Vocal Classical Music from Benaras Music Board