

ARIHANT CHAWLA

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EDUCATION

Punjab Engineering College, Chandigarh B.E. Computer Science Relevant courses: Design and Analysis of Algorithms, Data Structures, Digital Electronics and Logic Design, Discrete Mathematics, Vector Calculus	2017-Present GPA: 8.43/10
DAV Model School, Chandigarh CBSE, All India Senior School Certificate Examination	2015-2017 90.2%
Sacred Heart Sr. Sec. School, Ludhiana CBSE, All India Secondary School Examination	2005-2015 GPA 10

INTERNSHIPS AND VOLUNTEER EXPERIENCE

Code57, Chandigarh <i>Teaching Assistant</i>	Sept. 2018 - Dec. 2018
<ul style="list-style-type: none">Worked as a teaching assistant in a startup “Code57” , a coding bootcamp for Computer ProgrammingSubject matter taught was mainly related to Data Structures and Algorithms	
NAV Technocrats Pvt. Ltd, Chandigarh <i>Data Analyst</i>	Nov 2017 - Dec 2017
<ul style="list-style-type: none">Did an analysis of Residential Properties to build an optimal prediction model for maximum profit calculation.Increased prediction accuracy by 18%	
National Service Scheme (NSS), PEC Branch <i>Volunteering Teacher</i>	May 2017 - Mar. 2018
<ul style="list-style-type: none">Taught mathematics to kids of neighbouring areas from poor households who could not afford good schooling.	

PROJECTS

Student Identification Card Management System Working on digitizing Student Identification Cards. Use of QR Codes based on hashed valued of IDs to securely store the shareable, “digitally signed” SID Card. Implementation in HTML, CSS, Django and MySQL	Dec. 2018 - April 2019
Analysis of Quantum Algorithms Worked on IBM Q5 Quantum Computer and Quirk, a classical simulator to implement Grover’s Search Algorithm, Shor’s Factoring Algorithm and phenomenon like Quantum Entanglement and Teleportation.	Oct 2018 - Dec 2018
Real Time Credit Card Fraud Detection System Made a real time credit card fraud detection system using Long-Short Term Memory RNN Model.	Nov 2018

TECHNICAL STRENGTHS

Languages	C/C++, Python, L ^A T _E X, Qiskit, Bash, MySQL
Software & Tools	MatLab, GNU Octave, Adobe Photoshop, Proteus, Django
Operating Systems	Linux (Debian), Windows 7/8/8.1/10

EXTRA-CIRRICULAR

Gave a workshop on Amortization and it's applications in CS in association with IEEE-PEC.

Gave a workshop on Parallel Programming using OpenMP in association with ACM-PEC.

Finished fourth at Infosys Makeathon held at Infosys, Chandigarh in Oct 2018.

Completed a Short Term Course in 'Mathematics in Engineering' held at PEC in June of 2018.

Presented on Quantum Computing in the same course.

Attended the National Seminar on Semiconductor Technology in May 2018

Passed 'A' Certificate examination of National Cadet Corps

Quarter Finalist at UILS and Symcharcha intervarsity debating competitions.

Regular participant at various MUNs and Parliamentary Debates across North India

Awarded Cyber WhizKid, a school level excellence award in computers and related technology presented to one student per academic year for 2013-14.

Secured International Rank 46 in National Cyber Olympiad in January 2015 and 128 in February 2013.

Finished Third place in Intra-School Web Designing Competition in September 2014

ACADEMIC INTERESTS

Quantum Computing and Information Science

Graph Theory

Algorithmic Study

Theoretical Computer Science

MEMBERSHIPS

Student member of ACM since 2018

Member of IEEE Student Branch, PEC since 2017

Member of SAASC, the literary and debating society of PEC

PERSONAL TRAITS

Strong verbal and written communication skills.

Highly focused under pressure.

Like to relate everyday phenomenon with CS concepts and think of the optimal solution to problems.