

# ABHISHEK CHAUDHARY

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<b>Education</b>	<b>Indian Institute of Technology(ISM) Dhanbad,Jharkhand,India</b> Bachelor of Technology in Electronics and Communication Engineering	<i>July 2015 - May 2019</i>
	<b>Harmilap Mission School, Kanpur</b> 12th CBSE board Total Percentage:88.8%	<i>July 2012 - March 2014</i>
	<b>Dr. Virendra Swarup Education Centre, Kanpur</b> 10th CBSE board CGPA - 9.4	<i>July 2008 - March 2012</i>

<b>Work Experience</b>	<ul style="list-style-type: none"><li>● <b>Software Engineer, CGI, Bangalore</b> <span style="float: right;"><b>July 2019- Present</b></span><ul style="list-style-type: none"><li>● Full Stack Engineer</li><li>Design, Implement and Grow best-in-breed development infrastructures to support projects from the very early stages all the way to a scaling phase.</li><li>Build and Adopt the tools landscape to support development projects and operations for faster turnaround and easier scaling.</li></ul></li><li>● <b>SDE Intern, WhizMantra Educational Solution,Mumbai</b> <span style="float: right;"><b>May 2018- July 2018</b></span><ul style="list-style-type: none"><li>● Web Based UI for Content Viewing and Data Analysis for Smart Class.</li><li>● In this project, I created a Web Dev for content viewing for smart classes and an algorithm which can integrate with the data present on the hardware Raspberry pi.</li><li>● This data present on the PI is used for analysis of student performance and make successful prediction about their concepts.</li></ul></li><li>● <b>SDE Intern, Kypher,LLC</b> <span style="float: right;"><b>Feb 2018- June 2018</b></span><ul style="list-style-type: none"><li>● Gained familiarity with ASP.NET MVC Server.</li><li>● Designed and developed the basic code behind the forgot password for their platform.</li></ul></li></ul>
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<b>Professional Project</b>	<ul style="list-style-type: none"><li>● <b>India Applications-Enterprise</b> An Enterprise Application(In House Tools) which consist of many web based application. These application consists of Payroll Call Logging System , Meeting Room Booking System, HR e Enabler, Finance Portal, Travel Requisition System, TimeSheet Project Assigner and E Cab. Technologies being used is ASP.NET ,C# Angular , SQL Server , Window Authentication .</li><li>● <b>Estimation Environment</b> A tool used for estimation of project. We can have estimate and actuals for completion of projects, their cost and effort.It contains all the steps required from early phase of development till the deployment. A tool designed to handle the validation of estimates and metrics entire workaround and time management . Technologies being involved: DotNet, C# Angular, JavaScript, RabbitMQ, Microservices Architecture, Logger, SQL Server.</li></ul>
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<b>Self-Projects Undertaken</b>	<ul style="list-style-type: none"><li>● <b>Task Management</b> A platform for community to create a task and plan their workflow. It has user based Authentication and Authorization. Technology used in backend is NestJs. Link to this project can be found <a href="#">here</a>.</li><li>● <b>CodeBit</b> A Social Community for Developers to Learn, Master and Showcase their Technology Skill. Our Platform Community consists of Learners and Contributors.A learner can read any article and attempt related assignment to a particular technology. Contributors help our community grow by creating articles and assignment for multiple technologies. Learners are free to choose any learning path for a technology. Contributors are able to record tutorials and publish them for learners.</li></ul>
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- **AI-Assistance**

A very simple AI-based personal assistant written in Python. The program interprets vocal inputs into text and synthesizes voices from text input. It includes a recognizer, synthesizer, and a microphone capture utility. The project uses Google services for the synthesizer and recognizer. While this requires an Internet connection, it provides a complete, modern, and fully functional speech API.

- **Image Processing to measure Diameter of an Object**

Using MATLAB, I am able to write a script file to import an image, segment the image in order to isolate the desired object from its background and then use the MATLAB functions that come with IMAGE PROCESSING Toolbox to determine the object diameter. Image Processing Toolbox provides comprehensive set of reference-standard algorithms and functions. I have used regionprops function that is a tool to provide MajorAxisLength of the blob in the image.

- **Social Networking app built using Django**

Designed a social networking app which has features similar to other apps like facebook. We are planning to integrate this application into our University's platform as a main medium of interaction among the various clubs of the institute.

The project can be found [here](#).

- **Designed a Search-Engine using NLTK**

A search query is processed using NLP after which the results are displayed by crawling the web for relevant web pages and displaying them after normalizing the scores. I have used Natural Language Toolkit and KMP algorithm. The links are opened and searched via KMP Algorithm for pattern matching.

- **Prefix based item search**

Given a blob of information similar items are found in linear time.

The code was used to implement routing in computer networks, Dictionary and Contact list search, finding similar proteins based on sequence of Amino acids.

Code written in C++ language.

- **Implementation of Cryptography Algorithms of Encryption and Decryption**

With the manoeuvre of Cryptography Algorithms, I had encrypted and decrypted the data. I took the files encrypted it and again decrypted it with the keys provided using Python.

Here is the [link](#) to my project.

- **Designed a Blog portal using Django Framework**

I created a model which has fields like Author, Title, Text, published date and more. A search button is used to get the information about the Author and Books. If any book searched which is not present on static folder will display an error. I have created a static files folder which have pdf files so that they can easily be read or downloaded.

- **Designed a system for sending messages using Twilio API**

I designed the code which enables us to send messages to a verified mobile number. The message can be in any form i.e text, multimedia, etc.. I have used this API for notification to a person about his day to day activities. Every new message is sent to a person after three hours till evening.

<b>Technologies</b>	<b>Programming languages</b>	Python, JavaScript, C/C++, C# Java
	<b>Frontend Skills</b>	Angular, TypeScript, Vuejs, HTML/CSS,
	<b>Backend Skills</b>	C# Python, NestJs, SQL/MongoDB
	<b>Frameworks</b>	DotNet, NodeJs, Django
	<b>Tools Used</b>	Jira, BitBucket, Confluence, Git, Trello, Slack
	<b>Operating Systems</b>	Windows, Linux

**Certifications**

- **JavaScript Algorithms and Data Structures Masterclass** Udemy Certification
- **Full Stack Program Certification** Stack Route(NIIT Limited)
- **Programming on C and C++ Certification** NIIT Limited

**Relevant Courses**

- Design Patterns and Solid Design Principles
- Algorithm Design and Analysis,Data Structures,Computer Networks,Machine Learning,Signal Processing, MicroProcessor, MicroController
- Calculus , Numerical and Statistical Methods , Linear Algebra
- SQL for Data Science from University of California,Davis

**Other Information**

- **Interested in Designing Library functions and Quant Trading Algorithms.**
- **Methodologies : Agile , Scrum**
- **Four weeks Summer Training at NHPC Head Office, Faridabad.**
- **Core Team Member of Society of Electronics Engineers(SEE).**
- **Co-ordinator and Organiser of Spectrum 2K18 and 2K17(Departmental Fest).**
- **Worked at Kartavya(NGO).**