

# Shubham Singh | Resume

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## Education

### Academic Qualifications

- **Jalpaiguri Government Engineering College** **M.A.K.A.U.T, West Bengal**  
*Bachelor of Technology (B.Tech) in Electronics and Communications Engineering,* *2016-2020*  
C.G.P.A - 7.30
- **DAV MODEL SCHOOL** **C.B.S.E.**  
*Class XII, 86.33%* *2015*
- **DAV MODEL SCHOOL** **C.B.S.E.**  
*Class X, 86.50%* *2013*

### Experience and Projects

- **PricewaterhouseCoopers** **Hyderabad**  
*In-Office Internship* *January 2019–February 2018*  
**Automation of event log analyzer.** Built software for the extraction of remote desktop event Logs automatically using python and help to provide a quick insight into the incident response for the required visual analysis of the data.  
**Automatic concatenation of malware string and storing the strings in text files automatically.** Developed a tool for the extraction of the malicious PowerShell scripts split over multiple event logs in the Windows PowerShell event log file and concatenated them into a single script. This concatenation process helped the incident response team identify the malicious PowerShell script. PowerShell scripts were coded to concatenate the sub-strings and store them in CSV format. This tool enabled an automatic and hassle-free generation of complete malicious PowerShell script for identification and of future script attacks in the system.
- **National Institute of Technology** **Patna**  
*Research Internship* *July 2018–August 2018*  
Analyzed and developed regression models on WHO provided datasets on Maternal Mortality Trends in India. Successfully predicted reproductive health index and maternal mortality ratio using multinomial regression and bayesian optimization
- **GeeksforGeeks**  
*Work-From-Home Internship* *May 2018–Present*  
Responsible for writing and reviewing technical content based articles on data structures, algorithms, and algorithm-based problems in multiple languages.
- **Tsunami detection and alert mechanism(Smart India Hackathon)** - Built and deployed a deep learning approach towards tsunami detection and alert mechanism.

### Awards and Achievements

- **Award:** 2<sup>nd</sup> Runner's Up at Smart India Hackathon 2019.
- **Achievement:** Secured 63rd rank in the finals of Hacknight 1.0 sponsored by Microsoft and platform partner as Skillenza.

### Technical skills

- **Programming Languages:** Proficient in C++ and Python.  
Familiar with Arduino-UNO and C.
- **Machine Learning Skills:** Tensorflow, Keras, Bayesian Optimization, Supervised and Unsupervised machine learning, deep learning, NLP, Microsoft Azure, ImageVision.

## Special Qualifications

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- **Applied Machine learning in Python:** Affiliated to University of Michigan  
**Mentor:** Kevyn Collins-Thompson.  
**Grade:** 97.4 %  
**Certificate:** <https://tinyurl.com/yd3p6d2t>
- **Java Programming: Principles of Software Design:** Affiliated to Duke University  
**Mentor:** Robert Duvall, Owen Astrachan, Andrew D. Hilton Susan H. Rodger.  
**Grade:** 90.1 %  
**Certificate:** <https://tinyurl.com/y66czrq6>
- **Mathematics for Machine Learning: Linear Algebra:** Affiliated to Imperial College London  
**Mentor:** David Dye, Samuel J. Cooper, and A. Freddie Page  
**Grade:** 98.0 %  
**Certificate:** <https://tinyurl.com/ydb4rqkm>
- **Programming for Everybody (Getting Started with Python):** Affiliated to University of Michigan  
**Mentor:** Charles Severance.  
**Grade:** 96.6 %  
**Certificate:** <https://tinyurl.com/yd6j2ulx>
- **Interactivity with JavaScript**  
**Mentor:** Colleen van Lent, Ph.D. Charles Severance  
**Grade:** 94.3 %  
**Certificate:** <https://tinyurl.com/y7mhu4>

## Activities

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- "Fresher Representative" of my college. Member of the Technical Committee responsible for holding technical fests in our college.
- Winner of the annual quiz competition for two consecutive years in my college. Bronze medallist in a quiz competition organized by Me-Vero in my freshman year.
- Competitive coding enthusiast having active profiles on various coding platforms such as Codechef and Hackerearth.