

# Inderdeep Singh

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## EDUCATION

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- **Bishop's University** Sherbrooke, QC  
*Masters in Computer Science (Course Based); GPA: 94.6/100* Sep 2021 - Dec 2022
  - Taught programming and problem-solving to undergrad students as part of BU Tech Cafe Initiative.
  - Served on the CS Department Hiring Committee; Oversaw the fulfillment of an open associate faculty position.*Courses: Network Programming and Distributed Algorithms, Software Engineering, Data Visualization, Data Mining, Cryptography.*
- **Birla Institute of Technology and Science, Pilani** India  
*B. E. Computer Science; 7.1 CGPA, First Division* Aug 2016 - July 2020  
*Courses: Operating Systems, Machine Learning, Data Structures and Algorithms, Object-Oriented Programming, Database Systems.*

## SKILLS SUMMARY

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- **Programming Languages:** Python, JavaScript, SQL, Java, HTML/CSS, C/C++, R, MATLAB
- **Skills:** React, Node.js, Remix, Next.js, django, linux
- **Tools:** Docker, Git, Jira, AWS Cloud, Kubernetes

## EXPERIENCE

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- **Bishop's University** Sherbrooke, QC  
*Research Assistant - Prof. Yasir Malik* November 2022 - December 2022
  - **Systematic Review of Software Security solutions based on Machine Learning:** Explored several academic publications pertaining to Autonomic Computing, Malware Detection and Cyber Security. Prepared a rigorous and critical survey of 18 relevant research papers.
- **Birdeye** Gurugram, India  
*Software Developer* November 2020 - July 2021
  - **Integrations Platform:**
    - Wrote complex business logic across multiple micro-services; delivered modular, clean code.
    - Successfully Integrated with Modernizing Medicine (Third Party EHR System).
    - Investigated and uncovered issues causing slow server start in local development; Optimized application startup and improved developer experience.
    - Incorporated feature requests and resolved bugs within the internal administration and management **React** dashboard.
    - Prepared technical documentation and conducted remote training sessions for customer support teams.
  - **Tech Stack: Java, Maven, Spring Boot, Apache Kafka, MySQL, Redis, Elasticsearch**
- **Shorthills Tech.** Gurugram, India  
*Software Developer Intern* July 2019 - December 2019
  - **BestViewsReviews:**
    - Developed an Affiliate Marketing Platform [bestviewsreviews.com](https://bestviewsreviews.com) (BVR) from scratch in Django.
    - Implemented a Pop-Up Chat Interface using Django Channels, **WebSockets** and JavaScript with Redis as its backing store.

## RELEVANT PROJECTS

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- **Bulletin Board:** A multi-threaded, distributed network server in C++ using the **POSIX API**.
  - Incorporated concurrency management(mutexes and condition variables), thread preallocation and signal handling.
  - Designed, coded and tested an application protocol end-to-end for the **Two Phase Commit** algorithm.
- **Comparison of Machine Learning Algorithms for Analysis of Gene Expression Data :**
  - Trained and built models for multi-class disease classification using high-dimensional genetic microarray data.
  - Utilized several algorithms such as Decision Trees, Gaussian Naive Bayes, Multi-layer Perceptron and Nearest Neighbours.

## HONORS AND AWARDS

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- Obtained **All India Rank 915** in JEE Mains 2016 amongst **1.2 million** candidates.
- Awarded **Merit Certificate** for scoring 96.4% in Class XII; Placed in top **1%** of the All India Senior School Certificate Examination (AISSCE) 2016.
- Awarded the prestigious **Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship** in 2016 by the Department of Science and Technology, Government of India.