

# UJJWAL ARYAL

## PERSONAL DATA

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## RESEARCH INTEREST

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Algorithms and Computational Topology

## EDUCATION

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PRESENT M.Tech (Research) in COMPUTER SCIENCE,  
**Indian Institute of Science**, Bangalore, India  
COURSES: Design and Analysis of Algorithms, Linear Algebra and Probability,  
Computational Topology, Random Processes

MAY 2020 Bachelor of Engineering in COMPUTER SCIENCE,  
**Sri Ramakrishna Engineering College**, Coimbatore, India

MAY 2016 Senior School Certificate Examination (HSEB Board) in SCIENCE,  
**Nepal Mega College**, Kathmandu, Nepal

MAY 2014 School Leaving Certificate Examination (SLC Board),  
**SOS Hermann Gmeiner School**, Sanothimi, Nepal

## EXPERIENCE

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SEP. 2020 **Software Developer Engineer**, IQZ SYSTEMS, COIMBATORE, INDIA  
TECHNOLOGIES USED: Angular, NestJS, PostgreSQL, TypeORM, RestAPI

APR. 2020 **Software Developer Intern**, IQZ SYSTEMS, COIMBATORE, INDIA  
Developed a serverless web application for on-boarding of new employee to the company.  
TECHNOLOGIES USED: Angular, NodeJS, GCP Endpoints(API Gateway), GCP Serverless Functions,  
PostgreSQL, Elliptic Curve Digital Signature Algorithm

## PROJECTS

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- PRESENT    Topology of Random Connection Model**  
M.Tech Research Thesis Project. Working under Prof. Dr. Gugan Thoppe.
- AUG. 2019    SREC OBA/OBE/Staff Selection**  
Developed 3 web applications to manage student records, conduct online objective examinations and perform staff selection for Sri Ramakrishna Engineering College.  
TECHNOLOGIES USED: Django, PostgreSQL
- APR. 2018    File Compressor and Decompressor**  
A Huffman Code Compressor implemented using C.
- SEP. 2017    Sudoku Generator and Solver**  
Implemented an improved approach for solving the Sudoku which basically focuses on reducing the number of backtracks.

## ACHIEVEMENTS

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- AUG. 2016    Nepal Aid Fund Scholarship Scheme 2016-17**  
Selected by Indian Embassy for studying engineering in India in full scholarship.
- AUG. 2016    Institute of Engineering Entrance Examination**  
Secured an All Nepal 161th Rank among 15,000 students in Engineering Entrance Examinations for IOE.
- MAY 2014    School Level Certificate Examination, Nepal**  
Secured an All Nepal 17th rank in School Level Certificate Examination.

## OTHER ACTIVITIES

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Programming, Puzzles  
Travelling, Reading, Blogging