

YADWINDER SINGH

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
BTech, Computer Science and Engineering	Indian Institute of Technology, Ropar	7.81	2020-2024
Senior Secondary CBSE	SMP School, Suman	93.8%	2020

EXPERIENCE

- Arista Networks** *Software Engineer Intern*
Bangalore May 2023 - July 2023
 - worked on band-channel combo support for the scan radio feature within the Access Point's packet capture service while access point running in OpenConfig Mode.
 - enabled more precise and targeted wireless network traffic capture for analysis and troubleshooting purposes.
- CSE Dept** *Teaching Assistant under Dr. Puneet Goyal*
IIT Ropar Jan 2024 - present
 - Provided guidance and support to students undertaking various web and app-based software projects as part of the development engineering curriculum.
- iHub - AWaDH** *Product Developer Intern*
IIT Ropar August 2023 - present
 - Spearheaded the design and development of an innovative fruit sorting system based on color, size, and health of fruits.
 - Collaborated closely with cross-functional teams, including mechanical design experts, to seamlessly integrate image processing algorithms and Jetson Nano functionality.
 - Utilized React-Tauri framework for building Linux Application and FAST API for back-end and object detection and classification algorithms.

PROJECTS

- PhD Conference Grant Management Portal** *Jan 2023 - May 2023*
Web Development **GitHub**
 - Led the development of a user-friendly web-based application for PhD conference grant management, optimizing application processes, document uploads, and approval tracking, resulting in substantial administrative workload reduction.
 - Employed React.js for front-end development, and utilized Node.js, Express.js, MongoDB, and Google Cloud Storage for back-end and database management.
- Academic Management Portal** *Aug 2022 - Nov 2022*
DBMS **GitHub**
 - Developed a comprehensive multi-user database application in Java catering to the academic needs of an educational institution.
 - Showcased proficiency in ensuring application reliability by implementing extensive testing using JUnit.
- C Language Syntax Analyzer** *March 2022 - April 2022*
Language Processing **GitHub**
 - Implemented lexical and syntax analyzers for C language, generating tokens for lexemes using lex.
 - Defined comprehensive grammatical rules using yacc for function declarations, variable declarations, compound statements, assignment statements, and Boolean/arithmetic expressions.

TECHNICAL SKILLS

- Programming Languages:** GoLang, JavaScript, C, C++, Python, Java, Javascript
- Libraries/Frameworks:** : React.js, Node.js, Express.js, Tailwind CSS, Bootstrap, TypeScript
- Data Management and Cloud Services:** MongoDB, PostgreSQL, Google Cloud Storage
- Software Development Tools:** Lexx, Yacc, Bugsby, Git, Docker, PostMan, VsCode
- Others:** Linux Device Drivers, gRPC, protoBuf, LaTeX

KEY COURSES TAKEN

Algorithm & Data Structure, Database Management System, Operating Systems, Computer Networks, Programming Paradigms and Pragmatics, Software Engineering

MISCELLANEOUS

- Problem Solving,** Specialist at Codeforces. Handle: **Rko_8001** -
- Volunteering,** ISMP Mentor, IIT Ropar Nov 2021 - Aug 2022
- Sports,** Participated in 55th and 56th Inter-IIT Meet Basketball 2022, 2023