Robin Sandhu

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EDUCATION

Thapar Institute of Engineering and Technology — Patiala, IN
B.E. in Computer Engineering, **9.07 CGPA** — *2018 – 2022*

L.B.S Senior Secondary School — Kota, IN
Higher Secondary Education, CBSE, XII **86%** — *2018*

S.A. Jain Senior Model School — Ambala City, IN
Secondary Education, CBSE, X **9.8 CGPA** — *2016*

EXPERIENCE

Development Intern — June 2021 – Sept. 2021
Zscaler — *Virtual*
- Used **HTML**, **CSS** and **JavaScript** for adding features to the Continous Integration Web User Interface
- Wrote **Rest** API endpoints in JAVA Jersey framework for implementing the functionality of the features
- Wrote **SQL** queries in the Java API endpoints for fetching out the relevant info from the **MySQl** database
- Worked on **modularizing** the main build script of the Continous Integration System

PROJECTS

P2P Mortgage Lending System | *Solidity, Truffle, HTML, MySQL, IPFS, Expressjs* ⬀ — March 2021 – Present
- Wrote smart contracts in **solidity** for performing all the transaction related logical operation on the ethereum blockchain
- Implemented a backend in nodejs using **web3js** library for handling out all the **rpc** calls to the blockchain nodes on behalf of the user
- Implemented a secure way of storing the mortgage documents on the decentralized **IPFS** network using **GPG** key signing
- Worked on documenting the project along with my other teammates

Document Scanner | *JavaScript, NodeJS, Ionic, Google Vision* — Sep. 2020 – Dec. 2020
- Worked in a team of 3 members for developing a document scanner for our software engineering project
- Worked on adding support for Optical Character Recognition for images using the Google Vision API
- Added API support on the backend for storing the images on the server
- Helped in writing SRS and other diagrams for the documentation of the project

Double Pendulum PRNG | *JavaScript, CPP, P5JS* ⬀ — 2019
- Implemented this **paper** ⬀ on pseudo-random number generation using chaotic motion of Double Pendulum
- Used **P5** library of JavaScript for animating the double pendulum system
- Created a Web UI for visualising the chaotic motion of the Double Pendulum for different initial parameters
- Used CPP for iteratively solving the differential equations of double pendulum system for PRNG

POSITION OF RESPONSIBILITIES

Joint Academic Head | *ACM Student Chapter* — June 2020 – July 2021
- Mentored a batch of **27** sophomores of the ACM student chapter on Data structures and Algorithms
- Contributed to the society in organizing programming contests for the students of TIET

ACADEMIC ACHIEVEMENTS AND AWARDS

Recipient of the Merit Scholarship by Thapar Institute, waiving off **50%** of tuition fee — 2019
Placed 3rd position in Robotic ARM ELC Workshop — 2019

TECHNICAL SKILLS

Languages: C/C++, Python, SQL (MySQL), JavaScript, HTML/CSS, Solidity
Frameworks: Node.js, React, Express.js, Truffle
Developer Tools: Linux, Git, Docker, Google Cloud Platform
Libraries: pandas, NumPy, Matplotlib, STL(C++)