

# SUVRATJAIN

Ghaziabad, India | +91 8130244962  
suvrat\_jain@outlook.com | suvratj.github.io

## EDUCATION

### **B. Tech. in Information Technology**

NIT Kurukshetra, 2018-2022

- CGPA: 8.44/10.0

### **Senior Secondary (CBSE)**

Indirapuram Public School, 2018

- Aggregate: 94.6%

## WORK EXPERIENCE

(FREELANCE WORK; samples at [suvratj.github.io/showcase](https://suvratj.github.io/showcase))

### **Desktop Development**

#### **MacOS Development (SmylaHair Clinic)**

[suvratj.github.io/showcase/smylahair](https://suvratj.github.io/showcase/smylahair)

- Developed a follicular unit (hair density) analysis app using Qt/C++ for MacOS.
- Interfaced with USB microscope to help capture scalp images and perform hair density calculations for hair transplant.

### **Scripting**

#### **Invoice Conversion (Barr Nunn Transportation)**

[suvratj.github.io/showcase/invoice](https://suvratj.github.io/showcase/invoice)

- Developed a command line solution to batch convert multipage TIFF invoices to PDF, using Python/PIL.
- Reduced conversion time from 3-5 minutes to a few seconds by providing an offline solution

#### **VBA Work**

- Used Visual Basic for Applications to automate tasks for several clients in Microsoft Excel, mostly pertaining to data entry.

#### **Pine Script Work**

- Developed indicators for multiple clients to use in technical stock price analysis using Pine Script, a proprietary scripting language by TradingView.com.

## PROJECTS

### **Virtual Linux Filesystem using C**

[github.com/SuvratJ/linux-filesystem](https://github.com/SuvratJ/linux-filesystem)

- Developed a minimal Virtual Linux Filesystem supporting basic commands mkdir, cd, ls, rm, rmdir, mv, cp
- Mirrored and implemented concepts from the ext2 filesystem

### **Graphical maze Solver Using Python and PyGame**

[github.com/SuvratJ/Maze-solver](https://github.com/SuvratJ/Maze-solver)

- Used A\* algorithm to solve randomly generated mazes using Python and PyGame

### **NovoChess: A chess variants web application (Ongoing)**

- Developing a web application to create and customize chess variants
- Including the ability to publish your own variants and vote on others' variants
- Using ReactJs, ExpressJs and MongoDB to build the web application

## ACHIEVEMENTS

**Codeforces** Expert coder, max rating 1705

[codeforces.com/profile/kabirs58](https://codeforces.com/profile/kabirs58)

Winner: **Texas Instruments** Tech Whiz Competition (2016)

[archive.today/aL9bh](https://archive.today/aL9bh)

## SKILLS

REST APIs, Git, Data Structures and Algorithms, C, C++ 17, Python3, VBA, HTML, CSS, JavaScript, Qt, ReactJs, ExpressJs, MongoDB