

Suvrat Jain

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EDUCATION

B. Tech. in Information Technology, 2018-2022

- National Institute of Technology, Kurukshetra
- CGPA – 8.84

Senior Secondary (CBSE), 2018

- Indirapuram Public School, Ghaziabad
- Aggregate – 94.6%

WORK EXPERIENCE

Freelance Work

- **SmylaHair Clinic: MacOS Application Development (July 2019)**
Developed a follicular unit (hair density) analysis application using Qt Framework and C++, which interfaces with USB microscope and aids in hair density calculations for hair transplant.
Delivered an affordable custom solution to the client in place of an expensive commercial one
- **Barr Nunn Transportation: Invoice Conversion Solution (July 2019)**
Developed a custom command line solution for the client to batch convert invoices from multipage TIFF to PDF, using Python and Python Imaging Library.
Reduced time taken for the conversion from 5-10 minutes (using an online tool) to a few seconds
- **Pine Script work (2019)**
Developed indicators for multiple clients to use in technical stock price analysis using Pine Script, a proprietary scripting language by TradingView.com.
Provided consistent support for the clients to understand and deploy the scripts
- **VBA work (2016-2019)**
Used Visual Basic for Applications in Microsoft Excel to automate tasks for several clients, mostly pertaining to data entry.

PROJECTS

Virtual Unix Filesystem using C

- Developed a minimal Virtual Unix Filesystem in C, using binary files as storage
- Filesystem supports basic commands like mk, mkdir, cd, ls, rm, rmdir
- Includes commands to insert and retrieve files from the virtual filesystem

Graphical Maze Solver Using Python and PyGame

- Used A* algorithm to solve randomly generated maze, and displayed it using PyGame library
- Application takes maze dimensions, number of obstacles, start and end coordinates as input

ACHIEVEMENTS

Winner: Texas Instruments Tech Whiz Competition (2016)

- A technical quiz by Texas Instruments about their microprocessors

SKILLS

C	Desktop Application Development
C++	Data Structures and algorithms
Python	Visual Basic for Applications