

Shivansh Singh

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EDUCATION

UNIVERSITY OF DELHI

SRI VENKATESWARA COLLEGE

BS in Biochemistry

CGPA: 8.5/10

August 2023| New Delhi, India

DR. VIRENDRA SWARUP EDUCATION CENTRE

High school: 89%/100

Senior secondary school: 95.5%/100

• Top 5% of the school

Grad. May 2020| Kanpur, Uttar Pradesh, India

LINKS

Github:// Shivansh

LinkedIn:// @Shivansh Singh

Twitter:// @ShivanshSng

COURSE WORK

UNDERGRADUATE

- Cell Biology+ Practicum| • Proteins+ Practicum| • Hormone biochemistry and functions+ Practicum| • Metabolism of lipids and carbs+Practicum| • Atomic Structure, Bonding, General Organic Chemistry Aliphatic Hydrocarbons+ Practicum| • Basics of Statistical Inference + Practicum| Practicum
- Biochemical Techniques + Praticum
- Chemical Energetics+ Practicum|

ONLINE COURSES

- Quantitative methods for biology(edx)
- Principles of Synthetic biology(edx)
- Medical Biomaterials(NPTEL)
- Data Analysis for Biologists(NPTEL)

RESEARCH INTERESTS

- Chemical Biology
- Biomaterials and Nanotechnology
- Biofabrication, Tissue constructs and 3d Bioprinting tools.
- Biomedical sciences and Proteomics

SKILL SETS

PROCESSING AND CHARACTERIZATION TOOLS

- Benchtop Centrifuge Machine // Model No: 5804 R , Eppendorf
- UV VIS Spectrophotometer // Model No: DU 730 , Beckmann Coulter
- Magnus Inclined Binocular Microscope // Model No: MLX-B Plus
- Handling micropipettes
- Gel electrophoresis, DNA extraction and visualization

VISUALIZATION SOFTWARES

STRUCTURAL VISUALIZATION

- PyMOL • Jmol • RASMOL • Blender 3d • Maya

BIOINFORMATICS TOOLS

- ABCPred and Ellipred // Epitope prediction
- Patchdock and AutoDock Vina // Molecular docking
- SWISS MODEL // Homology Modelling
- EMBOSS and CLUSTALW Sequence Alignment

3D MODELLING

4+ years experience

- Blender 3d(Hard Surface and Organic modelling)| • Texturing, rendering and presentation skills

SOFT SKILLS

- Powerpoint presentations
- English communication skills
- Flexibility and Time scheduling

PROGRAMMING

- Java(Over 2000 lines) • Python| • MATLAB| • R| • Latex|

WEB DEVELOPMENT

- HTML5 • Tailwind CSS • JavaScript • Bootstrap

RESEARCH EXPERIENCE

SRI VENKATESWARA COLLEGE | RESEARCH INTERN

Jul 2021 - Aug 2021 | New Delhi, India

- **Topic:** Computational characterization of food allergens prevalent in India
- Built a database of plausible food allergy data, including their PDB structures, amino acid sequences, distinct immune responses generated, and their linear and conformational epitope binding sites through Pymol and ABCPred softwares
- Received Best-Poster presentation award in Christ College, Rajkot

SRI VENKATESWARA COLLEGE | RESEARCH INTERN

Jun 2022-Ongoing | New Delhi, India

- **Topic:** Immunohistochemical detection of anti-apoptotic marker and differential mRNA network analysis of Rhabdomyosarcoma(Rare skin cancer disease)

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EMPLOYMENT EXPERIENCE

BIOSOL PVT. LTD. | LEAD 3D ARTIST(FREELANCE)

Jun 2021 - Present | Kanpur,India

- Worked on marketing pitch video for company's products
- Designed 3d explainer animations and photorealistic setups.
- Received stellar feedback from the client for the project.

ASCOGENT PVT. LTD. | 3D ENVIRONMENT ARTIST(FREELANCE)

July 2021-Present| Kanpur,India

- Worked on 3d animations Minecraft based gaming storylines scripts
- Designing environmental setups, rendering and composition of the animated scenes to fit the client's needs.

SOCIETY MEMBERSHIPS AND HONORS

- Active life-Member of **Society for Biomaterials and Artificial Organs(India)**(2022)
- Active Life-Member of **Society for Tissue Engineering and Regenerative Medicine**(2022)
- Ranked **6th in school** in first level **19th SOF National Science Olympiad**(Year:2016)
- Certificate of **Social Service** by HelpAge India(Year:2015)
- Ranked **4th in school** in first level **18th SOF National Science Olympiad**(Year:2015)

INTERNATIONAL CONFERENCES AND WORKSHOPS

- Biomaterials Online Conclave 2022, National Centre for Nanoscience and Nanotechnology, University of Madras, SBAOI
| MARCH 7-15, 2022
- International Symposium on Emerging Materials for Biomedical Engineering, IIITDM Jabalpur, SBAOI
| JANUARY 30-31, 2022
- International Hands-on Training Workshop Using Bioinformatics Tools for Understanding Protein Biology, Biochemistry department, Shivaji College
| OCTOBER 11-12, 2021

VOLUNTEER WORK

HELPAge INDIA | FUND-RAISE

- Certified for Social service in creating awareness and assistance in raising funds for the care for the elderly irrespective of race, religion, caste or creed.

SAKSHAM FOUNDATION | GRAPHIC DESIGN INTERN(FUND-RAISE)

- Created posters and flyers which brought forth funds to help necessitous children with their daily needs(food, clothes, books and stationary materials).

ECO CLUB | GRAPHICS CONTENT AND RESEARCH TEAM MEMBER

- Created posters and flyers to celebrate various auspicious occasions, spreading environmental awareness amongst the audience.

DECLARATION

All this information mentioned in the resume is correct to the best of my knowledge.
