

SHASHANT NAGPURE

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EDUCATIONAL QUALIFICATIONS

YEAR	DEGREE	INSTITUTION	CPI/%
2018	BTECH IN ELECTRICAL ENGINEERING	IIT BOMBAY	6.4
2013	CLASS XII-CBSE	MANSAROVAR PUBLIC SCHOOL, BHOPAL	92%
2011	CLASS X-CBSE	DELHI PUBLIC SCHOOL, BHOPAL	10 CGPA

WORK EXPERIENCE

TECHNOLOGY ANALYST | TRADE AND TREASURY SOLUTIONS, CITICORP SERVICES PUNE [Oct'18-Current]

Part of team - Simplified CitiConnect For Files

- Worked on data migration from Oracle Database to **MongoDB** by developing a **UI** to provide CRUD operations
- Used **Angular Framework** with **REST API's & Mongo Repository** in **Spring Boot** to provide the solution
- Designed the web-pages with **Sass, CSS** and **Typescript** without any use of Bootstrap or third-party templates
- Designed features like **diff-checker** and added **validations** to reduce errors and improve the existing workflow

UNDERGRADUATE THESIS

ANALYSIS OF BIFACIAL SOLAR CELL TECHNOLOGY | Guide: Prof. Anil Kottantharayil [Jul'17-Dec'17]

*Estimation of performance and scalability of **Vertical Bifacial Solar Farms**; a viable option for large scale energy generation*

- Developing a **mathematic model** for calculating the **integrated power output** converted from the incident solar energy
- Determining the conditions for **optimal performance** by conducting simulations in REVIT and studying real time data
- Exploring the advantages of VMBM after considering the detailed effects of direct, diffuse and albedo insolation
- Analysing the **optimal farm design** for **maximum yearly output** based on the calculated light collection & panel output

ACADEMIC PROJECTS

TREE COVERING FOR TECHNOLOGY MAPPING | Guide: Prof. Sachin Patkar [Jan'16-April'16]

Mapping of graph representation of a logic circuit built using a universal set of base functions to optimize cost/ delay

- Designed an algorithm to break down a subject graph into trees, and cover these trees using dynamic programming
- Used concepts of Graph theory and OOPS

2-D ANIMATION | Course: Basics Of Animation | Guide: Prof. Sumant Rao [Jan'15-April'15]

Created a meaningful design by applying the principles of animation

- Designed and customized a character in **Photoshop & Illustrator**; Animated using **After Effects**

POSITION OF RESPONSIBILITY

FILM AND MEDIA SECRETARY | HOSTEL 9, IIT BOMBAY | Elected by 400+ hostel inmates [July'14-April'15]

*Awarded **Organizational Special Mention**; Honour given to 5 out of 30 council members*

INITIATIVES	<ul style="list-style-type: none">Planned and conducted first ever series of filmmaking workshops and screenings; footfall of 100+Revamped the film inventory with high-quality gear (GoPro, Stabilizer, Lens, Microphone)Created promotional campaigns for events using innovative videos and posters; outreach of 5.5k+
IMPACT	<ul style="list-style-type: none">Achieved 50% Y-o-Y growth in participants of hostel eventsConstituted and led a team of 5 members to win Best Editing Award at Film General Championship

KEY COURSES UNDERTAKEN

- WEB DEVELOPMENT:** Undertook courses on "Advanced **CSS** and **Sass**", "**Angular 7** Framework", "**Spring** Framework", "**Spring Boot**", "Introduction to **MongoDB**" on Udemy
- ELECTRICAL ENGINEERING:** Advance Data Networks, Advance Graph Theory, Digital Signal Processing, Probability and Random Processes, Data Analysis and Interpretation, Communication Networks
- ARTS & HUMANITIES:** Philosophy, Reading Literature, Study of Language, Animation, Perspectives on World Cinema

TECHNICAL SKILLS

- PROGRAMMING:** Data Structures and Algorithms, C++, SCSS, Typescript, Angular 7, Spring Boot, Java, MongoDB
- DESIGN:** Motion Graphics, 2-D Animation, Premiere Pro, After Effects, Photoshop, Illustrator, Speedgrade, Audacity

EXTRACURRICULARS

AWARDS	<ul style="list-style-type: none">Hostel Cultural Color '15 (Awarded to 5 out of 400+)Hostel PAF Color '16 (Awarded to 8 out of 500+)Hostel PAF Special Mention '14 (Awarded to 8 out of 500+)
FILM	<ul style="list-style-type: none">1st - Best Cinematography, 2nd - Overall, Special Mention in Editing in Music Video GC [15]Finalist (5 out of 500+) in Director's Cut, Mood Indigo [14]Overall Winner and Best Video Award for two consecutive years at Performing Arts Festival [16 & 17]Analyzed 15+ films ranging from different cultures and languages in World Cinema course [16]Delegate at 15th MAMI Mumbai Film Festival [13]
SPORTS	<ul style="list-style-type: none">Undertook yearlong training in Basketball under Nation Sports Organization, IIT Bombay [13]