Ayaskant Panigrahi

I want to create seamless interactions between humans and computers through impactful research in 3D, Natural and Tangible User Interfaces

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Education				
Year	Qualification	Institute	GPA/%	
2022 (expected)	MSc. in Interactive Arts and Technology	Simon Fraser University, BC, Canada	4.22 (Term 1)	
2020	B. Tech. in Computer Science and Engineering	Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (IIITDMJ)	8.6/10 CPI	
2016	Class XII Telangana Board	Vidyadham Junior College (FIITJEE), Hyderabad	96.8%	

Research experience

VVISE Lab, Simon Fraser University
 Jan 2021, ongoing

 Themes: VR interaction design | Unity3D

Research on 3D interaction techniques in VR under the supervision of Prof. Wolfgang Stuerzlinger, School of Interactive Arts and Technology (SIAT).

• IVE Lab, IIITDM Jabalpur

Theme: Deep learning based Image Segmentation

Jan - Sep 2020

Research on automatic smoke segmentation using deep learning methods under the guidance of Dr. Pritee Khanna, Dept. of Computer Science and Engg.

• **Embedded Interaction Lab, IIT Guwahati** Themes: VR interaction design | Unity3D | Leap Motion *May – Nov 2019*

Six-month research internship under Dr. Keyur Sorathia's guidance. Developed Unity3D application (with C# scripting) to prototype and test various free hand gesture-based selection techniques in Immersive Virtual Environments. Also worked on a bespoke hand-held controller for non-visual exploration of virtual space.

• OzCHI 24-hr Student Design/Research Challenge
Aug 2019

Themes: AR based interaction | Service Design

Team specially mentioned as being among the top five from all participating teams worldwide. Designed a smart city service for community resilience during adverse conditions like floods in Mumbai

Publications

- Shimmila Bhowmick, Ayaskant Panigrahi, Pranjal Borah, Pratul Kalita, and Keyur Sorathia. 2020.
 Investigating the Effectiveness of Locked Dwell Time-based Point and Tap Gesture for Selection of Nail-sized Objects in Dense Virtual Environment. In Symposium on Spatial User Interaction (ACM SUI '20). Article 26, 1–2. DOI: https://doi.org/10.1145/3385959.3422701
- Pranjal Protim Borah, Ayaskant Panigrahi, and Keyur Sorathia. 2020. TMOVE: Multimodal Feedback Actuator for Non-visual Exploration of Virtual Lines. In Proceedings of the Fourteenth International Conference on Tangible, Embedded, and Embodied Interaction (ACM TEI '20). 603–610.
 DOI: https://doi.org/10.1145/3374920.3374994

Test Scores

- GRE General Test: 332/340 (Quantitative 168, Verbal 164, Analytical Writing 4)
- **TOEFL:** 108/120 (Reading 28, Listening 30, Speaking 23, Writing 27)

Skills

- Languages & Tools: Unity, C#, Java, Eclipse and Processing IDE, Adobe Illustrator and Photoshop
- Platforms: VR, Desktop, Android, Raspberry Pi, Arduino

Major Projects

Redactio.ml – Automatic personal info redaction

Skills: Python | IBM Watson | Flask

Mar 2019

Created a webapp to anonymize data by detecting personal info in user data, with option to redact them

Fusion – Institute ERP Software

Skills: Django | Git VCS | Software Engg.

Jan - Apr 2019

Led the development of ERP software, managing contribution using a Fork – Pull request Git workflow

Recylotron 5000 – Bin for gamifying waste collection

Skills: Python | Raspberry Pi | Arduino

Sept - Nov 2018

Built an innovative bin which provides gamified incentives for users to deposit recyclable waste

JIGREE brand – Improving Jabalpur tourism sector

Skills: Service Design | Arduino

Sept - Nov 2018

Intervenes at all steps in tourists' journey by providing a central Android app during their stay in Jabalpur

Typing Tutor Skills: Java | JavaFX | Eclipse

Oct 2017

Developed a touch typing tutorial app to practically learn Object Oriented Programming in Java

"Pandemonium" game for Carpe Noctem Skills: Game Development

Oct 2017

Participated in and won a 72-hr institute wide gamejam based on the theme "Steampunk"

Volunteer experience

- Student volunteer for SIGCHI-sponsored "Expanding the horizons of HCAI" summer school in New Delhi
- Core volunteer in organising IIITDMJ Dribbble meet
- Member of the Working Committee of Samvaad, IIITDMJ's literary & quizzing club

Relevant coursework

- Augmented, Virtual and Mediated Reality (Spring '21, SIAT, SFU)
- Creative Programming for Digital Media & Mobile Apps (University of London, online via Coursera)
- **3D Interaction Design in Virtual Reality** (University of London, online via Coursera)
- Human-Centered Design: an Introduction (UCSD, online via Coursera)
- **Deep Learning (Spring '20, IIITDMJ)**
- OOPS with Java (Fall '17, IIITDMJ)
- Data Structures and Algorithms (Spring '17, IIITDMJ)

Awards and Achievements

•	Entrance Graduate Fellowship (GF) valued at 7000 CAD, SIAT, SFU	2021	
•	IIITDMJ Proficiency Prize for the best project in the graduating batch	2020	
•	Institute topper in NCAT 2019 First round with a nationwide percentile of 99.2	2019	
•	Runner up team in Hackathon by Vassar Labs	2017	
	out of 10 teams for making innovative Android app Tourism platform for discovery of offbeat places		
•	Selected for the prestigious Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship	2015	
•	Awarded Scholarship under National Talent Search (NTS) Scheme	2012 - 2020	

Leadership Roles

- Acted as leading member of Institute Game Development group, part of team which conducted workshop on Unity and participated in the Ludum Dare International Game Jam
- Part of 4-member Project Steering group leading development of Institute ERP software (Fusion)