

# VARNIKA CHABRIA

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## EDUCATION

### Purdue University, West Lafayette, IN

Graduating May 2025

BSc Computer Science conc. ML and AI / Computer Graphics

3.0 GPA

BSc Artificial Intelligence

Minors: Economics, English, Electronic and Time Based Art

Relevant coursework: Computer Graphics, Database Design, Human Computer Interaction, Artificial Intelligence, Machine Learning and Deep Learning

## TECHNICAL SKILLS

**Programming:** Java, Python, R, HTML/CSS, JavaScript, React, MATLAB, Cypress, Markdown, C, C++, C# , SQL, Git, MongoDB, Neo4J, Flask, Django

**Game Design:** Unreal Engine 5, Unity, Blender, GenAI tools

**Design and Modeling Tools:** MATLAB, Microsoft Office (Excel, Word) , Figma, Adobe Photoshop, Adobe Lightroom, Adobe Illustrator, Adobe InDesign, Final Cut Pro 10.5.2, Stop Motion, Animation, Photography, GIMP, Inkscape, Cascade, Delivra, SiteImprove

## PROFESSIONAL EXPERIENCE

### Purdue University – ANR Extension , West Lafayette, IN: Web Content Specialist

Feb 2023 – July 2023

- Boosted customer engagement as measured by open and click rates by creating and delivering monthly newsletters using Delivra.
- Improved website functionality and UX by decreasing the broken links and bugs using SiteImprove.
- Boosted ANR web pages' visual quality and load speed via image optimization using GIMP and Inkscape.
- Accelerated directory access with reduced search times by updating 250 Extension member profiles on WordPress.

### Wit/Bit, : Software Engineer Intern

Jun 2022 - Aug 2022

- Boosted user traffic with Markdoc-created CRM pages for Decorum.
- Increased customer interaction with an interactive publishing framework for B2B app users.
- Reduced software bugs through end-to-end testing using Cypress for Decorum.
- Minimized website downtime via GitHub actions integration on every push.
- Enhanced project completion rates with a weekly 20-hour focus on learning and implementing new software.

## ACADEMIC PROJECTS

### AI-VR Integration for Virtual Production

Nov 2023 - Current

Engaging in pioneering AI and VR research at the IDEAS Lab, Purdue University, to advance virtual production image generation under Professor Aniket Bera.

- Focusing on innovative project development of virtual reality and artificial intelligence in media.

### Library Management System (LMSystems)

Aug 2023

Developed an intuitive and robust web application to streamline library operations, enhancing data management and user interaction.

- Enhanced system efficiency and user experience by integrating advanced database management and ORM with SQLAlchemy.
- Optimized system performance and scalability through strategic indexing and robust transaction handling.
- Improved usability and aesthetics with a user-friendly interface using Flask, HTML, and CSS.

## ACTIVITIES

Engaged member of Purdue Crew (Rowing Varsity Team), Girls Who Code Purdue Loops, Computational Arts Club, and Society of Women Engineers – Tech Ops