

Ishank Pujari

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Professional Summary

Reliable candidate ready to take on challenges using problem-solving and task prioritization skills to help the team succeed. Stays on top of demands in fast-paced environments by effectively using short periods. Maintains organized, clean, and safe work areas with diligent attention to important details.

Education:

University of Illinois at Urbana Champaign
Bachelors of Science in Computer Science + Geography & Geographic Information Science

Urbana-Champaign, IL
Aug 2023 - Present

Projects/Experience:

Undergraduate Research University of Illinois at Urbana-Champaign: *Research Assistant*

Urbana-Champaign, IL
Feb 2024 - Present

- Conducting ongoing research on the system implications of video generation, exploring the relationship between software algorithms, hardware infrastructure, and network components.
- Investigating various open-source video generation models to analyze their quality, system requirements, and performances.
- Continuously evaluating text-to-image (TTI) and text-to-video (TTV) models to understand model quality, system requirements, and performance, with a focus on diffusion-based and transformer-based approaches.
- Examining the influence of factors like image size, architecture, and optimization techniques on system design for efficient video generation.

Google Developer Student Club: *Tech Member/Software Developer*

Urbana-Champaign, IL

Currently working on the Uniride project, a mobile application tailored specifically for students that serves as a comprehensive carpooling platform, designed to seamlessly connect students within the university community who share similar commuting routes. Through the Uniride app, students can easily create and discover ride offers, request to join rides, and securely confirm arrangements with fellow users.

- Integrated Firebase for backend functionalities and cloud storage.
- Designed and implemented carpooling features, including ride offers, requests, and confirmations

Game Development: *App Developer*

Moline, IL

- Developed series of small-scale mini games, including a captivating mini ping pong game and a classic snake game, using Python, Kivy, and Pygame
- Applied advanced object-oriented programming principles to architect interactive and engaging gameplay features
- Demonstrated strong problem-solving skills, overcoming challenges in graphics rendering, ball physics (for ping pong), and optimizing overall game performance
 - Leveraged Python's versatility for backend logic and game mechanics
 - Employed Kivy to create cross-platform user interfaces with a focus on a seamless user experience
 - Utilized Pygame for game development, integrating graphics, sound, and user input

Special Interest Group for Mobile Development (SIGMobile): *Backend Developer*

Urbana-Champaign, IL
Sep 2023 - May 2024

- Corrected errors in software designs during development and after installation.
- Developed and directed software system testing and validation procedures, programming and documentation.
- Evaluated and optimized systems based on collected and analyzed operating data.
- Participated in workshops and coding sessions to enhance mobile app development skills, including Android (Java/Kotlin) and iOS (Swift) platforms
- Contributed to knowledge sharing within the group through presentations, discussions, or online forums
- Engaged with industry professionals and experts through guest speaker events and networking sessions, expanding knowledge of current mobile development trends

Special Interest Group for Artificial Intelligence and Data Analytics (SIGAIDA): *Member*

Urbana-Champaign, IL
Sep 2023 - May 2024

- Participated in SIG AI and Data Analytics workshops and seminars, enhancing my understanding of artificial intelligence and data analytics techniques and tools
- Engaged with industry experts and professionals through SIG events, broadening my knowledge of the latest AI and data analytics trends and establishing valuable networking contacts

Illinois Computer Science Course Assistant: *Course Assistant*

Urbana-Champaign, IL

- Provide one-on-one or group mentoring sessions for CS 124 students to guide them in understanding complex computer science concepts and improving their academic performance.

Tools:

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|----------|---------|---------|--------|----------------|------------------|---------|
| IntelliJ | PyCharm | Dbeaver | Github | Android Studio | Spring Framework | Flutter |
|----------|---------|---------|--------|----------------|------------------|---------|

Skills:

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|------|---------------|-----|------------|------|----------|----------|----------------|-------|
| Java | Python | Git | Pygame | Kivy | MS Word | MS Excel | MS PowerPoint | Flask |
| | ArcGIS Online | | ArcGIS Pro | | HTML/CSS | Database | C++ PostgreSQL | Dart |