Krithik Dhandapani

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Education

University of California, Santa Cruz   Santa Cruz, CA

B.S. in Computer Science : Game Design (Deans Honors List x2)   Sept 2022 - June 2026

Minor in Technology & Information Management

Relevant Courses: Game Systems, Game AI, Rapid Prototyping, Game Technologies, Game Dev Patterns

Experience

UCSC AI Explainability and Accountability Research Lab

LLM Logic Researcher   September 2024 - Present

- Implement logical reasoning frameworks to enhance decision-making capabilities of large language models
- Develop algorithms to improve model performance on tasks requiring deductive reasoning, increasing accuracy by 30%
- Collaborate with a team of 15 researchers to design and test novel approaches for structured problem-solving in LLMs

Vehicle Automation Researcher   April 2024 - Present

- Conduct research on optimizing autonomous vehicle technology, focusing on user and environmental safety
- Analyze and process large datasets to identify potential safety improvements, resulting in 60% reduction in simulated incidents
- Contribute to the development of 5 new safety algorithms for autonomous vehicles

Projects

Zombie Raid   August 2024 - Dec 2024

Developer

- Engineered a C#-based 3D FPS game using the Unity engine , implementing weapon raycasting, AI navmesh movement, interactable objects, post processing camera effects, and various audio implementations

Pixel Adventure   Dec 2023 - March 2024

Programmer

- Spearheaded development of a comprehensive 2D platformer using Javascript and Phaser
- Built tile-based level design using the Tiled game engine
- Features smooth player movement, sound effects, and interactable actions through Javascript implementation

Smart Energy Shopper   Jan 2022 - June 2022

Developer

- Developed a VR game using Unity and C# to educate users about energy conservation
- Implemented first-person player movement and user interface, improving immersion and user experience
- Presented the project to industry professionals, leading to adoption requests from PG&E representatives

Certifications

Udemy Unity Game Development - The complete unity game development course

Udemy C Programming - C programming language certification

Technical Skills

Languages: Python, Java, C, C#, Swift, Bash, Javascript, HTML, CSS

Applications: Unity, Unreal Engine, Phaser, Twine, Gdevelop5, Tiled, Visual Studio, Xcode