

# Rishabh Sarin

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## EDUCATION

**California Lutheran University (CLU)**

*Thousand Oaks, CA*

**Bachelor of Science in Computer Science and Physics – Cum Laude**

*Graduated May 2022*

- Dean's List (Fall 2019, Spring 2020, Fall 2020, Spring 2021)
- Relevant Coursework: Software Engineering, Algorithms, Database Management Systems, Computer System Security, Object Oriented Design and Analysis, Particle Physics, Geometric and Physical Optics.

**Mukesh Patel School of Technology Management & Engineering**

*Mumbai, India*

**Bachelor of Technology in Computer Engineering**

*(transferred to CLU)*

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## PROFESSIONAL EXPERIENCE

**Software Developer - California Lutheran University, CA**

*August 2022 – Present*

- Spearheaded end-to-end development and redesign of mobile and web applications using PHP, Tailwind CSS, Alpine JS, and React Native via Expo, delivering a new platform in 11 months that boosted user traffic by 50% and cut costs by \$50K annually.
- Integrated third-party platforms including Informer 5 (Entrinsik), Canvas to optimize digital workflows, resulting in a 30% increase in student and faculty engagement.
- Engineered AI-driven academic tools, including general university and personalized tutoring assistants, leveraging various AI models to enhance student support services and improve data-driven decision-making by 25%.
- Collaborated in the development and campus-wide launch of Ask Gumby, a multifunctional AI assistant powered by LLMs and designed as a suite of Specialized Governed Assistants (SGAs) tailored to departments and user roles, transforming campus engagement with scalable, context-aware automation.

**Student Junior Developer - California Lutheran University, CA**

*March 2022 – May 2022*

- Upgraded mobile app from Modo v3 to v4 in collaboration with Modo Labs, improving app speed by 40% and traffic by 20%.

**Student Technician - California Lutheran University, CA**

*May 2021 – March 2022*

- Deployed network hardware and resolved 95% of lab tech issues within 24 hours, enhancing IT support efficiency.
  - Used PDQ Deploy and JAMF to configure PCs/Macs, cutting setup time by 50%.
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## PROJECTS

**Scanning Deep Sky Survey Images for Gravitational Lensing Using Fourier Transform, Pattern Recognition Algorithm, and Machine Learning**

*CLU, 2022*

- Built machine learning pipeline using Astropy, scikit-learn, and NumPy to detect gravitational lensing in deep-sky surveys.

**Client-Server Authentication System**

*CLU, 2021*

- Developed a JavaFX & MySQL-based system with dual database architecture for secure user registration and login.

**Are Robots Responsible? Extended and Shared Moral Responsibility**

*CLU, 2020*

- Received Summer Undergraduate Research Fellowship and published a first-author paper in the April 2021 issue of "Dialogue," the official journal of Phi Sigma Tau, The International National Honor Society in Philosophy.
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## ADDITIONAL

- **Technical Skills: Frontend:** HTML, CSS, React, Tailwind CSS, Alpine JS, Node, **Backend:** REST, GraphQL, MVC, SQL, **Languages:** C, C++, JAVA, Python, PHP, TypeScript, **LLM:** OpenAI, Llama, Ollama, Hugging Face.
- **Position of Responsibility:** Residential Assistant (2021-22), Member of Sigma Pi Sigma (National Physics Honor Society) (2021), University Hearing Board at California Lutheran University (2020-21), Member Computer Science Club (2019-2022).