

# KUSH BHARDWAJ

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## Education

**University Of Illinois, Urbana Champaign - GPA: 3.9**

**Expected Graduation - May 2027**

*Bachelor of Science in Computer Science + Linguistics*

*Bachelor of Science in Brain and Cognitive Science*

**Mission San Jose High School - GPA: 4.14**

*Class of 2024*

## Relevant Coursework

- CS 225 - Data Structures
- CS 340 - Computer Systems
- MATH 257 - LinAlg w/ Computational Applications
- LING 307 - Semantics and Pragmatics
- LING 301 - Syntax
- MATH 231 - Calculus II

## Work Experience

**UC Berkeley Artificial Intelligence Research Lab - Research Intern**

**June 2023 – Present**

- Engaged in a groundbreaking research initiative at UC Berkeley's AI Lab (BAIR), focused on leveraging machine learning to translate underrepresented Asian languages into English, with guidance from Professor Keutzer.
- Key insights presented at multiple high-profile international conferences, highlighting the project's academic and industry significance.
- Specialized in end-to-end data pipeline management, including extraction, cleaning, and annotation of large multilingual datasets to drive high-accuracy translation models.

**University of Illinois Deseret Consortium - Research Intern**

**January 2025 – Present**

- Spearheaded the development and formatting of Unicode-compliant texts and transliteration of Deseret Alphabet materials into Roman characters, ensuring precision and consistency across linguistic datasets.
- Contributed to the design and implementation of Optical Character Recognition tools, enhancing accessibility and research capabilities for the Deseret Alphabet while collaborating with faculty to align with project objectives.

**Klatch - Full-stack Developer**

**April 2025 – Present**

- Collaborated with independent developers to debug, refine, and improve functionality for an early-stage social platform.
- Addressed user-reported issues, optimized performance, worked with REST API, and contributed interface suggestions across multiple app iterations.

## Projects

**AI-Powered Content Creation and Social Media Automation**

**August 2024 - Present**

- Created an AI-driven pipeline to scrape large social media datasets, fine-tune a custom language model, integrate with self-automated video creation, and publish highly engaging multimedia content.

**Award-Winning AI-Driven Crop Yield Forecasting Tool**

**July 2024**

- Engineered a cutting-edge AI tool that predicts soybean harvest efficiency by incorporating real-time weather data, achieving a 95% prediction accuracy rate.
- Won the "AI for Change" Hackathon 2024 for its innovative approach in improving agricultural planning and resource management through predictive analytics.

**iOS App Development (www.stressbust.in) | iOS, Swift, XCode**

**Summer 2020 - Present**

- Developed and released a series of apps designed around mental health, garnering over 3000 downloads across the globe.
- Monetization causes a passive of income of \$100 per year.

## Technical Skills

**Languages:** Comprehensive knowledge of C++, Python, Swift, & Java

**Developer Tools:** XCode, VSCode, GitHub, Google AI Studio

**Other Skills:** Leadership, Communication, Teamwork, Initiative

## Awards

- AI for Change Hackathon Winner (2024)
- California State Seal of Bilingual Literacy (2024)
- California Golden State Seal Merit Diploma (2024)
- AP Scholar With Distinction(2024)

## Activities

**UIUC Association for Computing Machinery - Executive Member**

**2024 - Present**

- Leader of Natural Language Learning Branch and Member of Mobile Development Branch

**Mission San Jose App Development Club**

**2022 - 2024**

- Co-President - Coordinated Biweekly Meetings and Lectures on Programming iOS Apps.