

# Preetika Kaur

Software Engineer — Cognitive Scientist  
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## Education

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### University of California, Berkeley

Aug. 2022 to May 2024

Bachelor of Arts Degree: Cognitive Science major

GPA: 3.5/4.0

*Relevant Coursework:* Computational Methods of Cognition, AI and The Future of Business, Fundamentals of Blockchain, Basic Issues in Cognition, Rhythms of the Brain: From Neuronal Communication, Decision Making

## Skills

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**Programming Languages:** C++, Python, Java, SQL, HTML, CSS

**Software/Frameworks:** Git, Jupyter, Visual Studio, PyTorch, MATLAB, Terminal, Open Source modules

**Certificates:** Python Data Analysis Masterclass

**Soft Skills:** Written and Oral Communication, Project Management, Problem-Solving and Critical Thinking

## Experience

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**Research Assistant** — *Computational Cognitive Science Laboratory, UC Berkeley* Aug. 2022 to Jan. 2024

- Utilized natural language processing (NLP) techniques to develop prompts that test the capabilities of the OpenAI API and ChatGPT software, ensuring the generation of precise and relevant responses.
- Developed Python scripts to seamlessly implement modifications to the ChatGPT API, actively contributing to the enhancement of its functionality within the open-source codebase.
- Collaborated closely with data engineers and the principal investigator (PI) to assess the efficacy of the reinforcement learning (RL) decision-making strategies employed by API models.
- Conducted in-depth data analysis to identify and address potential interface issues, ensuring that the application consistently meets industry benchmarks for quality and performance.

**Finance Analyst** — *Payless Accounting, Fremont, CA*

March 2020 to June 2022

- Comprehensively analyzed and interpreted financial data to identify trends and patterns.
- Reclassified and reorganized transactions to ensure compliance with accounting standards and improve financial reporting accuracy.
- Leveraged multiple software platforms such as QuickBooks to compile comprehensive reports.

## Projects

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**visAI** — *AI and The Future of Business Presentation, UC Berkeley*

February 2024

- Directed a team project to develop a business use case that uses artificial intelligence (AI) to identify and flag faulty visa applications.
- Analyzed data sets and designed a prototype AI system to automate this process, which could help to improve the efficiency, bias, and accuracy of government visa processing.

**FusionCraft AI** — *Cal Hacks 10.0, San Francisco, CA*

December 2023

- Built a program in 72 hours from the latest fine-tuning AI models, addressing the challenge of creating effective prompts for latent text-to-image Stable Diffusion models, with a focus on usability for non-technical users.