

Carmen He

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EDUCATION

University of California, San Diego | B.S. Cognitive Science: Machine Learning, Minor in CS | GPA: 3.5

- **Relevant Courses:** Data Structures and Algorithms, Software Tools (Bash, CLI, Intro to servers, Testing), Web Client Languages, Database Management, Deep Reinforcement Learning, Deep Unsupervised Learning, Supervised Learning, Systems Programming in C, Data Science Python
- **Leadership:** Residential Life Assistant, Cognitive Language Development Research Assistant

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML & CSS, Clojure, SQL, C++, C | **Frameworks:** JUnit, Dojo, React/TypeScript, Carbon Design, Tensorflow | **Technologies:** OpenAI, Watsonx, Cloud platforms (IBM, AWS, Google), vector databases (Qdrant) | **Dev Tools:** Bash, Git, Unix/Linux, Excel and Office Tools

EXPERIENCE

IBM, San Jose, CA | *Guardium Software Developer Intern* **Jun 2025- Sep 2025**

- Developed a full-stack feature transferring info from Cloud data catalogs to a data monitoring platform on a MVC architecture Java website via RESTful APIs, improving data discoverability.
- Modernized the Guardium frontend portal navigation bar with React and the Carbon Design System, improving on the provided designs and enhancing UI consistency for 200k+ users.
- Pitched and prototyped a Retrieval Augmented Generation (RAG) AI agent that stores and queries to and from vector databases to streamline data security report building processes.
- Resolved bugs following Agile methods, restoring functionality to several website features.

ACM @UCSD, La Jolla, CA | *Frontend Developer* **Jan 2023 - Jun 2024**

A student-run branch of the national organization Associated Computing Machinery at UC San Diego.

- Built and styled dynamic, API-driven web pages with React/TypeScript, implementing search, pagination, and reusable card components used by 4K+ users in collaboration with designers.

Kode With Klossy, New York, NY | *Instructional Assistant (IA)* **Jun 2023 - Aug 2023**

- Mentored 38 underrepresented scholars through web development and design curriculums in HTML, JavaScript, and CSS, guiding 40+ hours of debugging and project feedback sessions.
- Collected structured feedback from scholars daily, and adjusted teaching practices accordingly.

PROJECTS & RESEARCH

Restaurant Rating Prediction | Skills: *feature engineering, linear regression, tf-idf, latent-factor models*

- Trained linear regression, sentiment analysis, and latent factor prediction models on a dataset of 1M+ restaurant reviews; evaluated using MSE. Documented findings in an academic-style report.

Benchmarking Metaphor Generation of LLMs | Skills: *Experimental Design, Prompt Engineering*

- Designed and conducted a robust study assessing the “creative” capabilities of GPT-4, DeepSeek v3, and Gemini 2.0 in metaphor generation tasks. Summarized results in a reproducible report.

Noctua: Academic Assistant | Skills: *Java Discord API (JDA), Git*

- Won 2nd place Best Education Hack at Hackwise, an international hackathon, out of 8 teams.
- Developed a Discord bot that recommends academic resources to high-school level students for 12 academic subjects according to user knowledge level in response to user commands.

Mission Blue | Skills: *HTML, CSS, JavaScript, Figma*

- Led team of 4 to create and pitch a 4-page website to promote awareness on ocean pollution.

Affiliations: Society of Women Engineers, Kode With Klossy, FIRST Robotics Alum, Humanity Up

Interests: Literature, Writing, Hiking, Cooking, Yoga, Content creation, Studying social interaction