

Lucas A. Summers

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EDUCATION

California Polytechnic University <i>Bachelor of Science in Computer Science, Concentration in AI/ML</i>	San Luis Obispo, CA Sep. 2022 – June 2026
Placer High School <i>High School Diploma</i>	Auburn, CA Aug. 2018 – May 2022

EXPERIENCE

Software Engineering Intern <i>BMC Software</i>	June 2025 – Sep. 2025 Santa Clara, CA
<ul style="list-style-type: none">Developed a dynamic LangChain toolkit for BMC's HelixGPT assistant service that auto-generates CRUD tools by building table schemas via the ServiceNow API, enabling the agent to interact with ServiceNow instances for the user without manual, per-table tool configurationBuilt intelligent tool caching architecture and confirmation management system to optimize toolkit building performance and safely handle destructive operations through user confirmation workflowsCreated an LLM-powered QA test script generation system that uses JIRA tickets to auto-generate and execute Python test scripts for API endpoints and UI components, incorporating user feedback for iterative improvementImplemented a local Retrieval Augmented Generation (RAG) system for multiple file formats using ChromaDB vector database and Ollama generated embeddings to improve context retrieval of API/UI documentation	
Engineering Intern <i>West Biofuels</i>	June 2024 – Sep. 2024 Woodland, CA

PROJECTS

2048 AI Game Solver <i>Python, Flask, NumPy, PyTorch, JavaScript, HTML/CSS</i>	April 2025 – June 2025
<ul style="list-style-type: none">Implemented multiple AI agents for the 2048 game, including Greedy, Expectimax, Monte Carlo Tree Search (MCTS), Reinforcement Learning (DQN), and various hybrid approachesDesigned and tuned advanced heuristics, rollout strategies, and deep Q-learning models to optimize performance and maximize achieved tile scoresBuilt a Flask-based web interface with real-time visualization, interactive play, and algorithm selection for user experimentation	
PokéGAN <i>Python, PyTorch, Numpy, Matplotlib, Google Colab, Jupyter Notebook</i>	Sep. 2025 – Dec. 2020

SKILLS

Languages: Python, C/C++, SQL, Java, JavaScript/TypeScript, HTML/CSS, R, Racket, Lisp, Bash, LaTeX
Frameworks: React, Node.js, Next.js, Flask, FastAPI, Ollama, Tailwind CSS
Developer Tools: Git, GitHub, Jira, Docker, VS Code, Vim, Google Colab, Jupyter Notebook
Libraries: Pandas, NumPy, Matplotlib, SciPy, NLTK, Scikit Learn, PyTorch, LangChain, LangGraph