JASON JELINCIC

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EDUCATION

California Polytechnic State University, San Luis Obispo ***Graduating June 2026***

Bachelor of Science in Computer Science and Artificial Intelligence GPA: 3.7

Minor in Chinese Language and Culture at National Taiwan University in Taipei

Relevant Coursework: Data Structures, Systems Programming, Object-Oriented Programming and Design, Intro to Software Development, Programming Languages, Design and Analysis of Algorithms, Theory of Computation, and Machine Learning.

LANGUAGES AND FRAMEWORKS

Java, Python, C, JavaScript, TypeScript, HTML & CSS, React, Next.js, Node.js, Express.js, SQL, Docker, TensorFlow, Pinecone, AWS (EC2, S3, Cloud9, DynamoDB, Bedrock, IAM, Lambda), Streamlit, Matplot, Pandas, MongoDB, neural networks, and RAG.

WORK EXPERIENCE AND RESEARCH

Lead Instructor | Team Leader | Extended Care Intern | Galileo Learning *June 2021 – July 2023*

- Recognized as a **2023 top hire** across the company after nomination by my Camp Director.
- Developed and facilitated all camp activities for over **200+** campers of various age levels.
- Supervised Team Leaders/Assistant Instructors working in my program area, strengthening teamwork and time management among staff by communicating individual feedback and delegating daily tasks.

Tech Lead | Software Developer | Hack4Impact Cal Poly *October 2023 – Present*

- Expected to lead a **team of 8 developers** in constructing a campus portal for club and project matching come fall.
- Utilizing the MENN stack and Clerk SDK, I spearheaded development of **user authentication and permissions** for the SLO Beaver Brigade website, building out the user authentication flow, managing the user pool, and implementing page permissions and making pages responsive based on user permissions.

Solutions Architect | AWS Digital Transformation Hub *December 2023 – June 2024*

- Wrote 500+ lines of code in Cloud9 to deploy a **Bedrock** knowledge base in a Streamlit frontend that ran on **EC2**.
- Utilized the Laserfiche API to transfer 2,000 files containing 20 years of city council meetings and agendas to **S3**.

Machine Learning Researcher | Cal Poly SLO Computer Science Department *September 2023 – June 2024*

- Conducted cutting-edge research and development of machine learning models in search and rescue applications.
- Managed cloud infrastructure using AWS and MarkLogic to support the computing needs of the research group.
- Cleaned and analyzed a database of 21,000+ lost person case files using **Pandas** with a focus on instant location estimation natural language processing, neural networks, and deep learning approaches.

CAMPUS INVOLVEMENT

Vice President | Computer Science and Artificial Intelligence Club *March 2023 – Present*

- **Doubled active membership** and facilitated weekly meetings for the AI community at Cal Poly San Luis Obispo.
- **Manage 4 teams and 7 officers** to ensure the success of club workshops, club projects, and research meetings.
- Contributed quality code to several projects and colab notebooks that were shared with our **675+** club members.

PERSONAL PROJECTS

Online Student Inventory Website | Software Development Class *May 2024*

- On a **team of five**, **within six weeks**, we deployed our own website to help students track their belongings.
- Lead the team as **scrum master** creating biweekly sprints, delegating issues, helping debug, and reviewing pr's.
- Handled **many-to-many relationships** in implementing friends, making upwards of **ten simultaneous API calls**.
- Developed a JavaScript library containing our common functions that **reduced duplicated code by 30%**.

Retrieval Augmented Generation Project | OctoAI *December 2023*

- Built a **RAG chatbot**, fine-tuned on the Kubernetes and OctoAI docs, utilizing OctoAI's Llama2 and Mistral API endpoints and LangChain to deploy the LLM models and Pinecone for the vector database.
- Deployed the project as an **AWS Lambda** Function by uploading a **Docker** container through the **Sam CLI**.