

JACOB FLORES

Chicago, IL | jfloresg@iwu.edu | 309-612-6685 | linkedin.com/in/jjacobjflores | jacobflores.github.io/portf/

EDUCATION

Illinois Wesleyan University | Bloomington, IL

May 2026

Bachelor of Science (BS) in Computer Science | Minor in Data Science

- **Relevant coursework:** Software Development, Artificial Intelligence, Deep Learning, Models of Computing, Applied Data Analysis, Computational Organization-Architecture, Algorithm Design & Analysis, Programming Languages, Computer Networking
- **Certifications:** AWS Cloud Solutions Architect Professional by AWS, Data Analytics by IWU
- **Leadership Experience:** Computer Machinery Association, AI Club, Spanish Teaching Assistant
- **Awards:** Phi Gamma Delta Courageous Leader Scholarship, Dean's List
- **Languages:** English & Spanish

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C++, C, HTML/CSS, Haskell, Prolog, Forth, MIPS
- **Frameworks & Libraries:** PyTorch, NumPy, Flask, Scikit-learn, Pandas, Matplotlib, Bootstrap, Bulma
- **Tools:** Git, VSCode, PyCharm, MySQL, SQLite

EMPLOYMENT EXPERIENCE

AI/ML Research Intern | FOREO | Remote (Stockholm, Sweden)

September 2025 - Present

- Developed and fine-tuned AI applications (LLM/SLM translation, multimodal tools, text-to-image/video generation, and image/video tagging) using Python and HuggingFace to build scalable solutions.
- Collaborated with a global team at FOREO, adapting open-source frameworks and optimizing Google Cloud (GKE, containerization, resource forecasting) for efficiency and scalability.
- Delivered end-to-end AI solutions, integrating technologies with business needs in a fast-paced environment.

IT Help Desk Associate | IWU Information Technology | Bloomington, IL

August 2023 - December 2024

- Assist over 40 walk-in clients and answer approximately 80 incoming calls per week with technical support.
- Monitor a web-based system, promptly responding to client questions and manage voicemails weekly.
- Accurately document client interactions in all mediums, troubleshooting and resolving 85% of issues independently, escalating/referring the remaining 15% as appropriate.

AI Trainer and Evaluator | Outlier | Freelance

May 2024 - October 2024

- Evaluate 40 AI-generated writings per week for accuracy and correctness, improving AI model performance.
- Provide constructive feedback to 100+ human writers, enhancing the quality of AI-generated content.
- Craft exemplary responses to prompts, demonstrating strong writing style and best practices in AI language.

PROJECTS

American Sign Language Recognition | Python(PyTorch, NumPy, Matplotlib, Seaborn, Pandas)

- Applied transfer learning using ResNet18 to classify 29 ASL signs with optimized training.
- Preprocessed 87k+ 200×200 images by resizing to 64×64 and reducing to 5k samples to optimize training time
- Automated data import via Kaggle API and built custom DataLoader pipelines with 80/20 train-test split.

Workout Planner | Python(Flask, Pandas), MySQL, HTML, Jinja2, CSS(Bulma), JavaScript

- Developed a full-stack web application using Agile methodologies, allowing users to customize fitness plans.
- Integrated real-time data processing with a well-organized database for efficient storage and retrieval.
- Optimized server-client interactions and built a responsive, interactive interface to ensure high scalability.

Automated CI/CD Pipeline on AWS | CodePipeline, CodeBuild, CodeDeploy, S3, CloudFormation, CloudWatch

- Built a fully automated CI/CD pipeline on AWS to streamline builds, testing, and deployments.
- Applied Infrastructure as Code (IaC) using AWS CloudFormation to provision scalable, secure environments (EC2, VPC, IAM), ensuring repeatability and reducing human error.
- Developed production-grade DevOps workflows using Python scripts for deployment automation, dependency management (CodeArtifact), artifact packaging, monitoring, and rollback strategies.