

# JOANNE KIM

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## Education

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### University of Florida

*Bachelor of Science, Computer Science*

*Bachelor of Science, Mathematics*

*Cum Laude, Honors Program, Dean's List, AI Scholar 2023*

May 2025

GPA 3.87/4.0

Gainesville, FL

## Relevant Coursework

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- Data Structures & Algorithms, Database Systems, Operating Systems, Fundamentals of Machine Learning, Linear Algebra, Engineering Statistics, Number Theory, Abstract Algebra, Real Analysis and Advanced Calculus

## Technical Skills

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**Languages:** C/C++, Java, Python, TypeScript, JavaScript, SQL

**Frameworks/Libraries:** React, Node.js, Next.js, Django, PyTorch, TailwindCSS

**Tools & Infrastructure:** Git, Docker, PostgreSQL, Redis, Kafka, Google Cloud, VS Code, CI/CD, Linux

## Experience

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### Valkyrie Enterprises

*Software Engineer*

Feb 2026 – Present

*Remote*

### Bank of America

*Software Engineer*

Jul 2025 – Feb 2026

*Dallas, TX*

- Architect modular Python/Pandas ETL framework with config-driven transforms for automated weekly reporting
- Debug and restore Python automation script, recovering 4h daily time savings in manual testing workflows

### University of Florida, College of Veterinary Medicine

*Machine Learning Research Assistant*

Mar 2023 – Dec 2024

*Prof. Jon Kim*

- Co-author “Deep Learning-Assisted Canine Lymphoma Classification” submitted to Veterinary Clinical Pathology
- Write PyTorch model & preprocessing code to diagnose lymphoma in ~1000 images with Convolutional Neural Networks
- Identify tumor biomarkers by training classification models and using statistical feature selection methods in scikit-learn
- Leverage high-performance computing for large-scale data processing and optimize model training in medical domain

### GE Appliances, a Haier company

*Software Engineering Co-op*

Jan 2024 – May 2024

*Louisville, KY*

- Responsible for design, implementation, and testing for LED oven Sabbath Mode using object-oriented C
- Develop state machines based on module requirements and employ the Model-View-Presenter design pattern
- Write and run integration tests on physical units adhering to Test-Driven Development and CI/CD practices
- Collaborate with cross-functional teams to ensure alignment with user needs and industry standards

## Projects

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**ParkMark** | *React, Express, PostgreSQL*

Jan 2025 – Feb 2025

- Design and develop responsive React/TailwindCSS UI from scratch, featuring interactive Mapbox interface
- Architect SQL database schema and compose efficient queries to reduce API consumption rate
- Configure serverless infrastructure using Google Cloud Run, Storage, OAuth, and Managed SQL
- Automate data processing by writing Python scripts that extracts and expands National Park Service geospatial data

**Crescendo** | *Next.js*

Mar 2025 – Apr 2025

- Create classical music chatbot leveraging Retrieval Augmented Generation (RAG) on vector database Pinecone
- Pre-process and generate text embeddings with OpenAI API and perform semantic searches on ~1,000 records
- Integrate Vercel AI SDK with Next.js application for seamless chatbot experience with multiple topics

**Ray Tracer** | *C++*

Nov 2024 – Jan 2025

- Use linear algebra and computer graphic concepts to build a ray tracer generating results in ppm format image
- Design classes for 3D vector space objects and render multiple entities with anti-aliasing techniques to smooth the curves