

# Krithika Kannan

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## TECHNICAL SKILLS

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**Languages:** Python, Java, TypeScript, JavaScript, HTML/CSS, SQL (Postgres), C/C++

**Frameworks:** React, React Native, Node.js, Flask, FastAPI

**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, Open Source

**Libraries:** pandas, NumPy, Matplotlib, TensorFlow, PyTorch

**Cloud Technologies:** AWS, Redis, Google Cloud, Firebase, Blockchain

**AI:** TensorFlow, PyTorch, Scikit-learn, OpenCV

**Design Tools:** Canva, Figma

## EXPERIENCE

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### Financial Analysis and Innovation Intern

April 2025 - Present

*Qatar Financial Centre Regulatory Authority*

*Doha, Qatar (Remote)*

- Assisted in maintaining and enhancing core analytical platforms and data pipelines to support supervisory teams within the Supervision and Authorization division.
- Contributed to AI-driven research initiatives by exploring machine learning applications and innovative SupTech solutions for regulatory supervision.

### Marketing and Event Coordinator

Jan 2025 – Apr 2025

*University of Waterloo Computer Science Club*

*Waterloo, ON*

- Managed digital marketing promotions for the club events, utilized React, JavaScript, and Next.js to design event landing pages, event sign-up, reminders, data gathering, and augment user engagement.
- Created visually appealing promotions with Figma, Canva, and Filmora to achieve maximum event branding.

### Teaching Assistant

July 2024 - Aug 2024

*Devamatha CMI Public School, Thrissur*

*Thrissur, India*

- Served as a Teaching Assistant for the Computer Science Professor of Grades 9 and 10.
- Delivered engaging lessons in Python and MySQL to build strong programming foundations.

## PROJECTS

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### [LAW-DER](#) | *Next.js, Flask, Cohere, Redis, AWS*

March 2025

- Architected a full-stack legal assistance platform integrating **Cohere LLMs** (Embed, Command A, Re-Rank) with **ChromaDB**-based vector search across four distinct legal corpora—case law, statutes, regulations, and precedents—for accurate, multilingual legal insights.
- Built a robust AI pipeline comprising a **Legal Assistant**, **Research Agent**, and **Verification Agent** to minimize hallucinations, ensure source credibility, and adapt responses to diverse legal jurisdictions.
- Deployed a scalable, responsive frontend with **Next.js 14**, **React**, **TypeScript**, **Tailwind CSS**, and optimized backend services via **Flask**, **Redis**, and **AWS S3**, enabling real-time legal document processing and equitable pro-bono lawyer matching.

### [DIGITAG](#) | *Blockchain, Internet Computer Protocol (ICP), NFTs*

Feb 2025

- Engineered NFT-based authentication on the **Internet Computer Protocol (ICP)** using Motoko smart contracts to immutably verify luxury item ownership and trace provenance on-chain.
- Implemented decentralized identity via **Internet Identity (II)** for secure, passwordless authentication and fraud prevention in high-value asset transactions.
- Built a fully decentralized resale platform with **ICP canisters** managing NFT minting, ownership transfers, and metadata storage; integrated with a React + Tailwind frontend for seamless user experience.

### [CHURNX](#) | *Predictive Modeling, Python, TensorFlow, NumPy, Scikit-learn, Data Analytics*

Jan 2025

- Developed a machine learning pipeline using features from **Kaggle's Bank Churn Dataset** and simulated insurance data to predict customer churn in the banking and insurance sectors.
- Applied **survival analysis** to model customer retention over time and identify high-risk churn segments for proactive targeting.

## EDUCATION

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**University of Waterloo, Ontario, Canada**

*September 2024 - April 2028*

*Honors Computer Science, Co-op with a Minor in Entrepreneurship*