

# Ismail El Ktiri El Idrissi

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## EDUCATION

Georgia State University  
*B.S in Computer Science*

Atlanta, Georgia  
December 2026

- **Concentration:** Software Engineering, Artificial Intelligence, Machine Learning
- **Related Coursework:** Automation, AI, Machine Learning, Web & Mobile App Dev, Design Analysis & Algorithms, System Level Programming, Data Structure & Algorithms

## PROFESSIONAL SKILLS

**Programming:** Python, JavaScript, Java, Typescript, React, SQL, C#, C++, C, HTML, CSS, Assembly

**Frameworks & Tools:** VSC, Jupyter Notebooks, AWS, Azure, Expo, Firebase, React Context API, Pandas, NumPy, MATLAB, React.js, GitHub, Matplotlib, Scikit Learn, PyTorch, Claude, Rest API, Docker, CI/CD, Git

**Certification:** Anthropic (CPN Learning Path), AWS Cloud practitioner, Microsoft Azure AI-102

## EXPERIENCE

Hive Financial

*Software Engineer - Intern*

Atlanta, Georgia  
May 2026 – August 2026

- Proposed and built a customer facing loan status portal in React + TypeScript inside a C#/Razor page, with an animated 5 stage pipeline and a Reg B compliant Adverse Action Notice flow.
- Re-architected the AI agent layer of Topgrading AI, splitting one general purpose agent into 6 parallel use-case specific agents; cutting latency by 4.7× and lifting output quality ~20% via specialization, model selection, prompt optimization, and pre-caching.
- Migrated core lending services from .NET 4.8/6/8 to .NET 10, modernizing a legacy codebase to cut technical debt across the Lending Operations stack.
- Shipped 25+ C# backend tickets across Lending Ops and Notifications through CI/CD pipelines; including a Brevo migration, plus UI/UX improvements to the customer-facing Explore Credit product.

VEGACHIMIE

*Sales Engineer -Intern*

Casablanca, Morocco  
May 2024 – August 2024

1. Led a 3 person technical delegation across 4 factories in Mumbai, India over 6 weeks, implementing tailored software solutions that cut operational downtime by 25%
2. Built custom software demos and technical proof of concepts that directly supported \$1M+ in contracts signed with C-suite stakeholders across 3 countries within the quarter
3. Delivered 15+ technical product presentations to prospective enterprise clients, contributing to 10 new accounts and \$500K in first year revenue

*Software Engineer (remote)*

May 2022 – August 2023

- Spearheaded the company's shift from manual to digital operations by designing and building an end to end inventory and invoice management system in Java and SQL, reducing manual data entry by 40% and boosting cross department productivity by 30% within the first two months
- Designed a real time infrastructure monitoring dashboard that cut IT troubleshooting time by 20%, and identified and resolved 7 system vulnerabilities through new security feature implementation

## PROJECTS

Machine Learning Model for Premier League Match Forecasting

September 2025

- Developed an end-to-end predictive analytics pipeline in JupyterLab to forecast football match results; performed data cleaning, feature engineering (time codes, venue, opponent encoding, rolling form stats), and trained a Random Forest Classifier to evaluate accuracy and precision (Improved precision from 47% to 62.5%).

CartIQ – AI Powered Smart Grocery App

March 2026

- Engineered a full stack grocery app using React Native, Firebase, and Zustand with AI-driven purchase predictions, personalized shopping lists, recipe to grocery conversion via Spoonacular API, real time barcode scanning, and collaborative list sharing achieving 40% improvement in price estimation accuracy.
- Led ML research benchmarking XGBoost (GBDT), Neural Collaborative Filtering (PyTorch, 64-dim embeddings), and a GRU-based sequential recommender against 3.4M grocery orders, building a 13.3M row feature matrix with temporal train/test split to prevent data leakage.
- Evaluated all three architectures on Precision@10, Recall@10, and F1 against a 15:1 class imbalance; model selection analysis now informing CartIQ's planned cloud inference layer.