

# KHAGENDRA KHATRI

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## EDUCATION

### Caldwell University

Bachelor of Science in Computer Science | GPA: 3.82/4.00

Caldwell, NJ

Expected May 2025

## EXPERIENCE

### Software Developer Intern

Caldwell, NJ

Digital Coach

Oct 2024 - Present

- Developed an AI-driven e-learning application using Next.js, React, and Firebase, which enhanced user engagement by 20% through interactive, real-time sentiment analysis in mock interviews.
- Integrated machine learning models in Python and TensorFlow for response analysis, delivering personalized scores and feedback that boosted user engagement by 25% and increased success rates by 30%.

### AI Engineer Intern

Remote

Radical AI

Jun 2024 - Aug 2024

- Spearheaded AI solutions development and deployment using OpenAI Assistant API and Google Gemini, implementing Scrum practices to boost system capabilities by 40%.
- Managed end-to-end data pipeline processes, including data collection, cleaning, and preprocessing, to optimize data quality for generative AI models, resulting in a 35% improvement in model performance and reliability.

### Machine Learning Researcher

Caldwell, NJ

Caldwell University

May 2024 - Aug 2024

- Invented and evaluated Recurrent Symbolic Networks architecture to tackle the vanishing gradient problem in RNNs, enhancing performance by 17% and interpretability for sequential data analysis.
- Collaborated with professors and fellow researchers to refine research methodologies, analyze results, and publish findings in the **28th** annual conference of the Consortium for Computing Sciences.

### Software Engineer Intern

New York, NY

Wicked Pay

Jan 2024 - May 2024

- Designed and implemented a batch-processing ETL pipeline utilizing Apache Airflow and Heroku, which optimized data flow efficiency, improved throughput by 10%, and reduced operational costs by 50%.
- Established a seamless data transfer process using REST API in C#, .NET Framework, and React.js, resulting in a 50% surge in user engagement by improving the user experience and system responsiveness.

### Computer Science Tutor

Caldwell, NJ

Caldwell University

Oct 2023 - Present

- Mentored over 300 students in Object-Oriented Programming, Machine Learning, and Data Structures, implementing personalized tutoring techniques that raised average student grades by 30%.
- Optimized learning environment by streamlining code review and introducing industry-standard tools such as Git and Docker, resulting in a 45% decrease in coding errors.

## PROJECTS

### Crystal Math | Flask, React.js, Manim, PostgreSQL, AWS, VerbWire, Terraform | [DoraHackPost](#)

- Developed and deployed a mathematical problem-solving tool, transforming it into an immersive and visual experience that makes math intuitive and engaging for users of all levels; secured **1st** place at HackPrinceton.
- Leveraged a diverse tech stack to build *CrystalMath*, incorporating a fine-tuned Claude model for Manim code generation, an AWS S3 bucket managed via Terraform, and cryptocurrency payments integrated with Verbwire.

### E-Graveyard | Django, React.js, PostgreSQL, Redis, Celery, LangChain | [DevPost](#)

- Built an innovative platform enabling users to engage in digital conversations with AI representations of deceased loved ones or inspirational figures, secured **2nd** place at HopHacks Hackathon.
- Implemented voice cloning with Eleven Labs API, custom vector storage using pg-vector in PostgreSQL, LangChain RAG architecture for contextually relevant responses, and Celery for load optimization.

## SKILLS

- Languages:** C#, Python, JavaScript, TypeScript, SQL, Java, C, Visual Basic, C++, OCaml
- Frameworks:** Django, Flask, ASP.NET MVC Controller, .NET Framework, React, Next
- Libraries:** Tensorflow, Pytorch, Scikit-learn, Matplotlib, Pandas, Numpy, NLT