KHAGENDRA KHATRI

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EDUCATION

Caldwell University   Caldwell, NJ
Bachelor of Science in Computer Science | GPA: 3.82/4.00   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 15%.

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 30%.
- Managed end-to-end data pipeline processes, including data collection, cleaning, and preprocessing, to optimize data quality for generative AI models, resulting in a 25% 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 20% 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 30%, and reduced operational costs by 20%.
- 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 200 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 30% 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