

Karan Singh

linkedin.com/in/karansingh

kboytron.dev

Email: kss4398@protonmail.com

Mobile: +1-217-402-6543

Atlanta, GA

EDUCATION

University of Iowa

Bachelors in Computer Science

Iowa City, IA

Aug. 2020 – Dec. 2024

- **Coursework:** Artificial Intelligence, Computer Organization, Software Development, Data Structures & Algorithms, Multi-variable Calculus, Linear Algebra

Certifications: AWS Solutions Architect, AWS Developer Associate, AWS Cloud Practitioner, Google Data Analytics

EXPERIENCE

Labelbox

Software Engineer - AI Training

Remote

June 2024 - October 2024

- Evaluated and enhanced code quality through rigorous analysis and optimization

Maxi

Data Science Intern

Los Angeles, CA

September 2023 - November 2023

- Analyzed 5 years of user data with 15+ Python scripts, creating detailed case studies that informed key decisions by the CEO.
- Boosted customer retention by 18% by identifying churn patterns and providing actionable recommendations.

MutCoinGang

Founding Engineer

Atlanta, GA

May 2020 - Present

- Founded and managed an online store selling in-game items, generating over **\$100k in profits**.
- Automated the production and delivery pipeline with custom scripts, ensuring one of the fastest service times in the industry.

PROJECTS

SolarEnergyViz.tech (Hackathon Winner - Best Data Visualization)

- Led a team of four to develop a machine learning-powered platform for visualizing 12+ years of solar energy data, providing actionable insights for energy optimization.
- Designed DevOps pipelines to streamline data ingestion, processing, and deployment, ensuring scalability and reliability for end users.

Speech Recognition System

- Developed an end-to-end CTC-based speech recognition system using neural networks, implementing beam search decoding and optimizing training pipelines.
- Tuned model configurations, including the number of hidden layers and layer width, to minimize cross-entropy loss and improve system performance.

SKILLS

Languages: Python, Java, C++, C#, CUDA, JavaScript, SQL, HTML, React, Next.js, CSS

Technologies: AWS (S3, EC2, Lambda, DynamoDB, IAM, ELB, RDS, etc.), Azure, MongoDB, Docker, Kubernetes, REST APIs, CI/CD (GitHub Actions, Jenkins), Git, Linux, Shell, Visual Studio Code