# Amithesh Sathish

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## EDUCATION

- **The University of Iowa** — Iowa City, IA
  *Bachelor of Science in Computer Science; GPA: 3.3* — *Aug. 2020 – June 2025*
  - Coursework: Database Systems, Computer Organization, Intro to Networks, Data Structures & Algorithms, Linear Algebra, Numerical Methods, Theory of Computation, Probability and Statistics, Software Development.

- **The University of Iowa** — Iowa City, IA
  *Entrepreneurial Management Certificate; GPA: 3.4* — *Jan. 2021 – June 2025*

## CERTIFICATIONS

- Edureka Data Science and AI, Prompt Engineering - DeepLearning.AI, AWS Cloud Practitioner, AWS Solutions Architect

## EXPERIENCE

- **Warner Music Group / Quantum Leap Technologies** — New York, NY
  *Software Intern* — *Nov. 2023 – Mar. 2024*
  - Developed machine learning models to predict album and single rankings by analyzing over **100TB** of data.
  - Developed ML models with Python and scikit-learn, boosting album and single ranking accuracy by **30%**.
  - **Spearheaded automation of ad targeting strategies**, achieving a **20%** reduction in customer acquisition costs
  - Improved ad targeting and artist campaigns using Python, scikit-learn, and machine learning algorithms, including Linear Regression.

## PROJECTS

- **SanjiBOT Cooking Chat Bot**
  * Created a personal chatbot using GPT-3.5 Turbo to generate step-by-step recipes based on ingredients and time, with optional translation into any language.
  * Engineered a multilingual translation system, enabling recipe generation in **1000+** languages, broadening accessibility for global users.
  * Built and visualized the chatbot using Python's Panel library, providing a user-friendly interface for interaction.

- **Health Care Database Model**
  * Contributed to a distributed healthcare system by integrating electronic records, insurance, and appointments using a normalized MySQL database.
  * Optimized MySQL queries by using **Stored Procedures**, improving database response time by 50%, enhancing system efficiency.
  * Developed a secure, role-based web interface with JavaScript/HTML and a Python back-end, managing authentication, appointments, billing, and lab results.

## SKILLS

- **Languages**: Python, Java, C++, C, SQL, HTML, Haskell, Next.js, MongoDB, JavaScript, React.
- **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, Deep Learning Frameworks (PyTorch, TensorFlow, Caffe), scikit-learn.