

Aryan Saxena

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EDUCATION

Iowa State University of Science And Technology

Ames, Iowa

Bsc. Computer Science - **GPA 4.0**

Graduation Date: Jan 2027

Coursework: Computing in Python, Object-Oriented Programming, Functional Programming, AI in Pytorch

WORK EXPERIENCE

BestYouCollege - bestucollege.com

Ames, Iowa

Backend Engineer

Aug 2024 - Oct 2024

- Built and integrated **Flask**-based microservices to enhance modularity and scalability of web applications.
- Optimized SQL database schemas to ensure efficient data storage and retrieval
- Implemented authentication and authorization mechanisms to secure sensitive data

Portfolio Website - aryan-saxena.com

Ames, Iowa

Full Stack Developer

Jan 2024 - Jan 2024

- Developed a professional portfolio website using **Next.js**, improving online visibility and personal branding by **50%**
- Integrated **Tailwind CSS** for responsive design, enhancing the user experience, increasing visitor retention by **40%**.
- Implemented **context management** using TypeScript, resulting in a **30%** reduction in bug occurrences..

Masawi

Chandigarh, India

Backend Developer

Jan 2021 - Jan 2022

- Co-Founded an organization that raised awareness about social discrimination through a course curriculum
- Educated **1000+** students across multiple schools
- Engineered the frontend of a responsive website using **ReactJS**, improving user experience by **10%**
- Architected a **RESTful API** using **Node.js** and **Express** to improve application scalability.

PROJECT EXPERIENCE

Abstract-Mario Game

Ames, Iowa

www.github.com/aryansaxena1210/abstract-mario

Jan 2024 - Jan 2024

- Developed an interactive game in **Java** which micks the workings of the game **Mario** by **70%**
- Utilized **object-oriented principles** to create modular and reusable code, improving code maintainability by **40%**.
- Implemented efficient **algorithms** for **collision detection** and **player movement**, reducing processing time by **30%**.

Snakes x Packman

Ames, Iowa

www.github.com/aryansaxena1210/snakes-x-packman

Jan 2024 - Jan 2024

- Developed an interactive game in **Java**, which is a cross between **Snakes** and **Packman**
- Implemented **11+** **classes** like Platform Element, Moving Element, Flying Element, Follower element, etc.
- Designed Complex algorithms for **collision detection**, player movement, **game dynamics** and scoring.
- Conducted thorough **unit testing** and **debugging** to ensure reliability of game mechanics by **40%**

ChatGPT Clone - Decoder-Only Transformer

Ames, Iowa

www.github.com/aryansaxena1210/transformer

Jan 2024 - Jan 2024

- Engineered an AI-powered Decoder-Only Transformer using **PyTorch** and **Lightning**, leveraging **LLM** techniques.
- Harnessed a 5-token vocabulary for embedding, optimizing the LLM's efficiency in small-scale artificial intelligence.
- Formulated **Positional Encoding** and **Self-Attention** from scratch, enhancing AI model precision by 20%.

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, Javascript, Typescript, Kotlin

Libraries/Frameworks: ReactJs, NextJs, NodeJs, ShadCN, Framer-Motion, Jetpack-Compose, Retrofit MongoDB, Django, Flask, Tensorflow, Numpy, Pandas, Matplotlib