

Aryan Saxena

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EDUCATION

Iowa State University of Science And Technology

Ames, Iowa

Bsc. Computer Science - GPA 4.0

Graduation Date: May 2027

PROJECT EXPERIENCE

Abstract-Mario

Ames, Iowa

www.github.com/aryansaxena1210/abstract-mario

Jan 2024 - Mar 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%**.

Modern Portfolio

Ames, Iowa

www.aryan-saxena.com

Jun 2024 - Present

- 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.

Snakes x Packman

Ames, Iowa

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

Mar 2024 - May 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 and user interface

Tweetsy API

Ames, Iowa

www.github.com/aryansaxena1210/tweetsy-api

May 2024 - Jun 2024

- Built a dynamic Android application using **Kotlin** and **Jetpack Compose** to display categorized tweet lists.
- Integrated **Firebase** to securely store and manage tweet data, ensuring real-time updates and synchronization
- Utilized **Hilt** for dependency injection and **Retrofit** to handle API requests efficiently

WORK EXPERIENCE

Application For Delta Sigma Phi

Ames, Iowa

Mobile Developer

Jul 2024 - Present

- Created an application to facilitate a seamless-functioning within the Fraternity, enhancing task compliance by **50%**.
- Integrated **Firebase Firestore**, resulting in a **40%** improvement in data retrieval speed and reliability.
- **50+** Download/Active **Users expected** after completion

Masawi

Chandigarh, India

Backend Developer

Sep 2021 - Jul 2022

- Co-Founded an organization that raised awareness about social discrimination through a course curriculum
- Integrated API implementation using **Express** and **NodeJs** to handle multiple request

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