Shubh Patel

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EDUCATION

Georgia Institute of Technology (GT)   *Aug 2023: Dec 2025*
Bachelor of Computer Science, Cybersecurity and Privacy & Intelligence

WORK EXPERIENCE

VIP - BrainBoost   **Georgia Tech**
Data Analytics Lead   *Aug 2024 - Dec 2025*

- Lead and facilitate weekly analytics team meetings, ensuring workflow optimization and collaborative issue resolution through **cross-functional coordination**.
- Develop and maintain **API endpoints** to streamline **data integration** and enhance **system efficiency.**
- Used **Matplotlib** and **Plotly** to create interactive data visualizations, enabling dynamic analysis and clearer communication of insights.

College of Computing   **Georgia Tech**
Undergraduate Teaching Assistant   *Aug 2024 - Dec 2025*

- Led cross-functional meetings for **CS 2340**, leveraging **Agile methodologies** to manage the product lifecycle and ensure alignment on key deliverables and student engagement objectives.
- Guided students using **Jira** for **task management**, **backlog prioritization**, and tracking **sprint progress**, ensuring timely delivery of key milestones.
- Provided technical support to **50+** students weekly on **Django**, **HTML**, **CSS**, and **JavaScript** for web development.
- Applied **Scrum** and **Agile** methodologies, managing tasks with **Jira** for project tracking and milestone delivery.

PROJECT EXPERIENCE

Spotify Wrapped | HTML, CSS, JavaScript, Kotlin, MongoDB
Scrum Master   *Mar 2024 - May 2024*

- Led a team in developing an Android application inspired by Spotify Wrapped, incorporating **CI/CD pipelines** for streamlined deployment.
- Integrated the **Spotify API** to fetch user data and provide personalized insights with dynamic data visualizations using **Kotlin** and **JavaScript**.
- Designed the front end with **HTML**, **CSS**, and **JavaScript**, ensuring a responsive, user-friendly interface and seamless user experience.
- Contributed to backend development, handling **API integration**, data storage, and real-time updates with **MongoDB** for scalable, **NoSQL** data management.

Dungeon Escape – Game Boy Advance Emulator Game | C   *Oct 2024 - Dec 2024*
Developer

- Developed a dungeon escape game in **C** for the Game Boy Advance (GBA) using **low-level memory** management and hardware register manipulation to render graphics, manage input, and implement game logic.
- Implemented a tile-based map system, **collision detection**, and player movement using pointers and custom structs.
- Utilized GBA's **interrupt handling** and timer registers to manage game states and frame updates in a resource-constrained environment.

Business Supply Express – Full Stack Database Application | MySQL, Flask, REST API   *Oct 2024 - Dec 2024*
Developer

- Engineered a **Flask**-based web application backed by a normalized **MySQL** database to support business logistics operations.
- Designed and implemented parameterized **stored procedures** and **views** to optimize query performance and enforce data integrity.
- Developed **RESTful API** routes to execute backend **SQL** logic, enabling seamless integration between frontend components and the relational database.
- Utilized **MySQL Connector/Python** for efficient database communication, supporting **ACID-compliant operations** and concurrent user access.

Technical Skills

Software: Docker, Git, Google/Oracle Cloud, Azure, MySQL
Programming Languages: Java, C, Python, HTML, CSS, JavaScript, SQL, Assembly
Tools/Frameworks: Agile, Scrum, Git, Azure, Android Studio, Arduino, Matplotlib, GitHub, Docker, Trello, CI/CD Pipeline, MongoDB, MySQL, Flask, REST API, ACID Compliance