

# Aryan Patel

404-578-4006 | [aryanpatel.com](http://aryanpatel.com) | [arypat2005@gmail.com](mailto:arypat2005@gmail.com) | [linkedin.com/in/aryanpatel](https://linkedin.com/in/aryanpatel) | [github.com/aryanpatel](https://github.com/aryanpatel) |

## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science (BS) in Computer Science - GPA 4.0/4.0*

*May 2027*

- Concentrating in Information Internetworks & Artificial Intelligence
- Coursework: Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Objects and Design, Discrete Mathematics

## EXPERIENCE

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### Molecular Evolution Core Lab

March 2025 – Present

*Software Engineer Intern*

*Atlanta, GA*

- Developed the Molecular Evolution Core Lab (MECL) website using the MERN stack to enhance online presence and provide information about lab research and services
- Built a responsive contact page enabling 20+ clients to easily request information
- Implemented and maintained automated Jest tests, improving backend reliability by 25% and reducing bug reports by 40%

### Knack

July 2025 - Present

*Academic Tutor*

*Atlanta, GA*

- Provided 1-on-1 tutoring sessions in Object-Oriented Programming, Data Structures, and Discrete Mathematics

## PROJECTS

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### AWS Podverse | *AWS EC2, AWS Lambda, AWS S3, AWS DynamoDB, AWS Cognito, Next.js*

- Built a full-stack podcast platform from scratch, using AWS Lambda for serverless compute to handle variable traffic and reduce latency by 50%
- Integrated AWS EC2 and Cognito to establish a scalable hosting environment with robust user authentication, achieving 99.9% platform uptime
- Integrated AWS DynamoDB for podcast metadata and user data management, improving data stability and scalability by 60%
- Configured an AWS S3 bucket with data partitioning to enable scalable, cost-efficient storage of podcast videos and thumbnails, ensuring 99.9% uptime and reliable content delivery

### AI Study Tool For Pharmacy Students | *React, MongoDB, Express.js, Node.js, Vite*

- Developed 'Pharma', an AI-powered pharmacy chatbot and flashcard generator for personalized learning, leveraging OpenAI GPT-4o
- Implemented secure JWT-based authentication with token refresh and expiry handling, ensuring secure user login
- Developed a RESTful API with Express.js to efficiently manage flashcards and user data in MongoDB, improving data reliability and enabling scalable user growth

### PokéTrade | *Typescript, Django, React, DALL-E API, OpenAI API*

- Collaborated with 3 teammates to develop PokéTrade, a web application enabling users to manage Pokémon card collections, trade directly or via marketplace, track virtual currency, and engage in AI-powered simulated battles using OpenAI GPT-4o
- Facilitated sprint planning, daily stand-ups, and retrospectives using Scrum and Agile methodologies with a real-world client to drive timely delivery and foster continuous improvement throughout the project
- Implemented a custom card creation feature using DALL-E API, allowing users to design unique Pokémon cards, increasing user engagement

## TECHNICAL SKILLS

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**Languages:** Python, Typescript, JavaScript, Java, HTML/CSS

**Frameworks:** React.js, Next.js, Node.js, Express.js, Django, Docker, Vite, Tailwind, Storybook, Jest

**Cloud Services/Databases::** AWS EC2, AWS Lambda, AWS S3, AWS DynamoDB, AWS Cognito, MongoDB