

Aryan Goel

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Education

Purdue University

May 2027

BS in Computer Science

- **Relevant coursework:** Data Structures And Algorithms, Object Orientated Programming, Competitive programming, C programming, Computer Architecture, Linear Algebra, Intro to Machine Learning, Multivariable Calculus

Experience

Software Engineering Intern

New York, NYC

TeamUp

April 2025 – present

- Engineered **FastAPI** microservices containerized with **Docker**, deployed to **AWS ECS Fargate** with Application Load Balancer and auto-scaling, improving backend uptime and deployment speed by **40%**.
- Automated **PostgreSQL** migrations via **Alembic + GitLab CI**, enabling zero-downtime releases and reducing staging DB errors by **80%**. Ensured backward-compatible deployments and rollback safety through **125+ unit tests**.
- Streamlined CI/CD with **GitLab Actions**, pushing **Docker** images to **AWS ECR** and triggering **ECS** updates; cut deploy time to **< 5 mins**. Supported rapid rollout of backend features such as real-time team join requests, and user onboarding.
- Integrated **AWS Cognito** for JWT-based auth and monitored backend via **CloudWatch/ECS logs**, enabling scalable user sessions and faster issue resolution across environments.

Software Developer

West Lafayette, IN

PhysiLink

March 2025 – present

- Spearheaded the **migration** of the production database from **Firebase** to a scalable, relational **PostgreSQL** instance on **AWS**, improving data integrity, query performance, and long-term maintainability.
- Refactored the **SpringBoot** backend to align with the new **PostgreSQL** schema, introducing modular APIs, environment-based configs, and **50+ unit tests**—reducing bug reports by **60** and improving deployment reliability.
- Modernized backend infrastructure with **Docker** and **CI/CD**, enabling scalable deployments and faster development cycles.
- Implemented **RBAC** (Role-Based Access Control) and integrated **Stripe Payment API** to enable secure and scalable transaction processing within the application.

Software Developer

West Lafayette, IN

Hack The Future - SFSL

Sept 2024 – May 2025

- Led **full-stack development** of an **SMS-based food ordering platform** for underserved communities using **Node.js**, **Next.js**, and **MongoDB**, and deployed the application on **Microsoft Azure Cloud Infrastructure as a Service (IaaS)**.
- Engineered **Twilio API** integration, automating SMS workflows and scaling service to **1,700+ Indiana clients in 6 months**.
- Designed the **Node.js** backend workflow and built the **SMS system** with real-time order tracking and automated status updates, improving user experience and reducing order errors.

Projects

InboxPilot — The AI Agent for emails (*NextJs, NodeJs, PostgreSQL, PineconeDB*)

Deployed App [🔗](#)

- Co-developed **InboxPilot**, an **AI-powered email assistant** built by a team of four to **automate repetitive inbox tasks** like intelligent labeling, auto-drafting, favoriting, and forwarding. **Reduced Email Handling time by 65%**.
- Integrated with **Gmail** and **Outlook** using **OAuth2**, enabling secure, scalable automation across multiple email clients.
- Enabled users to search and converse with their inbox using **natural language** by powering the AI assistant with a **RAG pipeline**, delivering accurate results across **1000+ emails per user**.

BoilerGuess — Geoguesser for Purdue (*React, NodeJS, Express, MongoDB*)

Deployed App [🔗](#), Repo [🔗](#)

- Created a **Purdue student platform** where past, current, and new students can play a **GeoGuesser-like game** to test and learn about Purdue campus, with **250+ users**.
- Engineered a **real-time leaderboard** and **achievement system** to boost engagement and retention.
- **Reduced latency by 40%** via **Redis caching** and **Winston logging** for error handling.
- Designed **user authentication** with **JWT tokens** and **Google OAuth**.

Skills

Languages: Java, TypeScript, Python, Javascript, C++, SQL

Technologies: AWS(Cognito, ECS, ECR, CloudWatch, Fargate), Docker, Postgres, FastAPI, Node.js, Next.js, SpringBoot

DevTools: Git, GitLab CI/CD, Docker, Alembic, Postman, OpenAI API, LangChain, Hugging Face