# Rayhan Noufal Arayilakath

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## Skills

Ray is a sophomore at Purdue University (Class of 2027) graduating with a double-major in B.S. Cybersecurity and B.S. Infrastructure and Network Engineering. He is a self-taught full-stack software engineer with 4+ years of experience building scalable cloud technologies and customer-led product development with Y Combinator and Techstars backed startups, excelling in early-stage product and GTM development and anti-abuse work.

## Experience

**MeetYourClass**, Ann Arbor, MI                                                             Jan 2025 – May 2025
Software Engineer Intern, GTM

- Implemented a streamlined onboarding flow, increasing performance with React Scan and React Query, simplifying the student registration process, **increasing setup conversion by 60% and improving user activation at the top-of-funnel**.
- Refactored the image watermarking pipeline to use native Canvas APIs, significantly improving render speed and reducing end-user latency in image-heavy workflows.
- Audited and modernized legacy code across the frontend codebase, aligning with current engineering standards and improving maintainability and developer onboarding.
- Led migration from Algolia to Elasticsearch for core search functionality, **decreasing query latency and cutting third-party search costs by 40%**.
- Improved spam detection systems by fine-tuning content heuristics and implementing lightweight server-side filters, reducing false negatives and improving moderation accuracy across student posts.
- Investigated and identified leaked coupon codes using traffic analysis and usage patterns, leading to targeted revocations and policy updates that prevented further abuse and protected promotional integrity.

**Jumpseat**, West Lafayette, IN                                                             Aug 2024 – Dec 2024
Founding Software Engineer

- Collaborated with and led cross-functional teams to align technical development with business objectives, driving product success with **three customer and enterprise product launches** in Q4.
- Designed, containerized, and deployed the backend for enterprise-grade booking management software using Docker and Kubernetes on AWS, ensuring scalability and reliability for dozens of users.
- Migrated a large legacy codebase and database models to modern standards and technologies (Next.js, PostgreSQL), improving system maintainability and performance.
- Implemented critical features in React, Next.js, and Typescript that enhanced user experience and streamlined customer operations, including live shuttle tracking, driver clock-in/clock-outs, simplified travel planning, and faster customer check-in.
- Engaged in B2B client interactions to tailor software solutions, directly contributing to **securing the company's first enterprise contract** with Purdue's largest shuttle provider.

**Replit**, Foster City, CA                                                             Mar 2023 – May 2024
Software Engineering Intern, Anti-Abuse Operations

- Highly regarded for my hard work, dedication, and ability to deliver results, leading to **four contract renewals** and continued collaboration past the internship season (1+ year of experience).
- Developed a scalable, event-driven moderation platform in Node.js and Golang with 20+ pluggable identifier modules and response pipelines, supporting high-throughput processing across 30+ real-time ingestion channels from diverse platforms.
- Applied data analysis techniques in Python and SQL to identify and mitigate emerging abuse vectors, decreasing response times, mitigating the impact of resource abuse, and **rescuing $3500 in losses every month**.
- Developed a multithreaded scraper/invalidation system to detect and revoke exposed API tokens in published projects, ensuring user safety and leading to later iterations where the editor automatically hides pasted tokens. Directly responsible for **ensuring the safety of 6000 customers**.

- Improved an internal tool written in Python that handles takedowns of phishing websites, expanding on its parsing functionality and scanning for other types of malicious content such as malware and copyright violations. Automatically **took down over 2000 cases** of phishing websites over a year.
- Implemented advanced abuse detection systems using Hex, Apache Dataflow, and micro-services in Node.js, over large datasets and regression models to identify abusive behaviors exceeding certain thresholds.

## Education

**Purdue University**, West Lafayette, IN                                                              May 2027
**Bachelor of Science, Cybersecurity + Infrastructure and Network Engineering with Honors**
- Minors: Organizational Leadership, Spanish for Professionals
- President – Purdue Hackers (purduehackers.com)
- Undergraduate Researcher with Purdue Tech Justice Lab

**Westlake Academy**, Westlake, TX                                                              June 2024
**International Baccalaureate Diploma**
- Honor Roll 2020-2024
- IB Computer Science Student of the Year 2024
- National Merit Commended Scholar
- President – Westlake Academy Computer Science League Team
- Founder – Westlake Academy Hack Club (hackclub.com)
- Founder – Westlake Academy Audio/Video Broadcasting team

## Skills

**Languages**: Javascript/Typescript (5yrs), Python (5yrs), SQL (4yrs), Golang (3yrs), Java (3yrs), Rust (2yrs), C (1yrs)
**Software**: AWS, GCP, Langchain, Docker, Kubernetes (K8s), Tensorflow, JupyterNotebook, Next.js, Tailwind CSS, Git, Bash

## Other Work & Activities

**Purdue Tech Justice Lab**, West Lafayette, IN                                          Aug 2024 – Present
Undergraduate AI and Policy Researcher
- Collaborated on **interdisciplinary research** focusing on the intersection of technology, law, and social justice, analyzing the impact of digital systems on marginalized communities.
- Conducted literature reviews and synthesized findings on topics related to **data privacy, algorithmic bias, and cybersecurity ethics**, contributing to team publications and presentations.
- Engaged with external stakeholders such as advocacy groups and policymakers in the Greater Lafayette area, translating complex technical findings into actionable insights and supporting equitable tech policy development.

**Freelance Software Engineer,** Dallas, TX                                          Oct 2022 – Jan 2023
- Pioneered the use of the Replit Bounties program, gaining hands-on professional experience in real-world project development as a self-taught software engineer.
- Developed web applications such as e-commerce platforms, internal search tools, farm management tools, and project management dashboards using Java, Node.js, Spring Boot, Python, Golang, React, Angular, and PostgreSQL streamlining client operations and improving business processes for users.
- Integrated cross-platform solutions to solve complex problems across diverse tech stacks, decreasing delivery time and project versatility.