

# Gavin Wyant

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## EDUCATION

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### University of Pittsburgh

Bachelor of Science in Computer Science (3.77 GPA)

December 2025

Pittsburgh, PA

## RELEVANT COURSEWORK

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- Data Structures & Algorithms II
- Cloud Computing
- Operating Systems
- Advanced Systems Software
- Computer Networks
- Software Quality Assurance
- Web Programming
- Machine Learning
- Formal Methods of CS

## EXPERIENCE

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### Software Engineer Intern

March 2024 – November 2024

ForensisGroup

Remote

- Developed and maintained key user-facing features using React, TypeScript, and Tailwind CSS, resulting in a **30% increase in user engagement** and a significantly improved user experience.
- Implemented comprehensive unit and integration tests with Jest and React Testing Library, achieving 99% test coverage and **reducing UI-related bugs by 40%**.
- Partnered with a third-party Conversion Rate Optimization team to identify customer pain points through analytics and user feedback, leading to targeted UX improvements and measurable conversion rate gains.
- Authored thorough documentation across all phases of development, ensuring clear knowledge transfer and maintainability for future contributors.

### Owner/Manager

November 2019 – June 2023

GCWyant LLC

Indiana, PA

- Founded and operated an LLC (est. 2019) as the parent company of a personal training facility, overseeing all business operations including staffing, marketing, and financial planning.
- Delivered personalized training to **200+ clients**, building long-term relationships and maintaining high client retention through customized fitness programs and consistent engagement.
- Led and managed a team of personal trainers, implementing performance incentives and operational improvements that resulted in a **20% year-over-year revenue increase**.

## PROJECTS

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### Firewall | C, Linux, NFQUEUE, hping3

October 2025 – present

- A user space firewall that identifies and rate-limits incoming packets to protect legitimate users during simulated attacks on the system.
- <https://github.com/gavincwyant/firewall>

### Database Engine | C, Git, SQLite

April 2025 – present

- Built a persistent C-based database engine to strengthen knowledge of low-level memory management and fundamental database architecture.
- <https://github.com/gavincwyant/database-engine>

### Network Simulation | C++, ns-3

November 2025 – present

- An ns-3 simulation exploring dynamic drone-assisted multi-hop wireless networks.
- [https://github.com/gavincwyant/multi\\_hop\\_drone\\_forwarding](https://github.com/gavincwyant/multi_hop_drone_forwarding)

### NewNano | C, Curses Library

February 2025 – present

- Fork of nano text editor that adds modern autocomplete functionality.
- [https://github.com/gavincwyant/new\\_nano](https://github.com/gavincwyant/new_nano)

## TECHNICAL SKILLS

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**Languages:** Java, C, C++, Rust, Python, JavaScript, TypeScript, SQL, HTML, CSS, Perl, GraphQL

**Frameworks & Libraries:** Next.js, Node.js, React, Angular, SprintBoot, Tailwind CSS, Flask

**Developer Tools & Platforms:** Linux, Git, Docker, Kubernetes, AWS, Figma, Jira, Agile, Postman