

# Ryan Jerome Gleeson

Software Developer & Computer Engineering Student

Computer Engineering student focused on building scalable systems and solving complex user problems. Proven track record in full-stack development ([BangkokRail.com](#)), technical leadership, and competitive innovation. Dedicated to bridging the gap between technical infrastructure and real-world business value.

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## Experience

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|--|--------------------|
| <b>ClickCamp 16 Cybersecurity</b>      | Mahidol University |
| Technical Instructor & Systems Support | December 2025      |
- Designed and delivered a technical lecture on DNS Architecture and DNS Spoofing, teaching students to analyze network resolution protocols and identify critical vulnerabilities.
  - Supported ExxonMobil representatives during their sponsored Data Analysis session, guiding student teams through a retail case study to derive data-driven business expansion strategies.

## Projects

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|----------------------------------|-------------------------|
| <b>RYGL Cloud (Self-hosting)</b> | February 2024 - Present |
|----------------------------------|-------------------------|
- Architected a Self-Hosted Private Cloud simulating an enterprise environment, implementing Strict Network Policies (VPN/Firewalls)
  - Deployed a microservices architecture using Docker and Traefik, configuring dynamic reverse proxying and automated SSL/TLS termination for 20+ services (e.g. BangkokRail, Ghost CMS, Immich)

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|------------------------|----------------|
| <b>BangkokRail.com</b> | 2022 - Present |
|------------------------|----------------|
- Simplified complex rail navigation for Bangkok commuters by developing a route-finding web app.
  - Receives over 1000 page views and 200 search queries each month.
  - Developed in Django and deployed on a cloud VPS running Linux.
  - Packaged as a Docker image and deployed using GitHub Actions.

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|-------------------------------------|--------------------------|
| <b>ClickCamp16 Personality Quiz</b> | September - October 2025 |
|-------------------------------------|--------------------------|
- Built with Astro.js and TypeScript frontend, integrated with Umami analytics.
  - Drove significant audience engagement and amplified event brand awareness by engineering a viral personality quiz with personality-based scoring and highly shareable result pages
  - Achieved 6,000 views and 500 visits within the first 4 days of release.

## Education

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|---|-------------------------|
| <b>Mahidol University</b>   | Bachelor of Engineering |
| Computer Engineering  | August 2024 - Present   |
| <b>Srinakarinwirot University Prasarnmit Demonstration School</b> | Highschool              |
| Digital Engineering Major   | June 2021 - June 2024   |

## Profiles

- [LinkedIn](#)
- [GitHub](#)

## Skills

- Programming**  
JavaScript, Python, Java, C, C++, HTML, Dart, REST APIs
- Networking**  
DHCP, TCP/IP, DNS
- Deployment**  
Configuration of Linux Servers, Network Infrastructure, Containerization (Docker)
- Tools:**  
Git, Docker, Linux, GitHub Actions

## Certifications

- [Google IT Support Professional Certificate](#)
- [Google Cybersecurity Certificate](#)
- IELTS Band 8

## Training

- Digital Twin Workshop**  
Mahidol University
- UX/UI Design Workshop**  
ExxonMobil
- High Availability with Kubernetes**  
ICT Mahidol x SCBX
- AWS AI (Bedrock) and Cloud**  
AWS x Mahidol Comp Eng.

## Interests

- [Building a Homelab & Self-hosting](#)
- [Designing Solutions with Programming](#)
- [Tech & IT](#)