

# Khunakorn Wongsriprasert

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## Junior Full-Stack Developer | Software Engineer

### PROFESSIONAL SUMMARY

Motivated Full-Stack Web Developer with a strong foundation in frontend and backend development, proficient in Java, React, Node.js, Python, and MongoDB. Experienced in numerical analysis and machine learning, with a background in Applied Science (Physics) from Mahidol University and hands-on experience through the Greystone Co-op Full-Stack Program. A detail-oriented and adaptable problem solver, eager to enhance technical expertise and contribute to innovative projects. Ready to grow professionally in a dynamic and fast-paced work environment.

### SUMMARY SKILLS

- **Full-stack Development:**
  - Frontend: React, HTML, CSS, TypeScript
  - Backend: Node.js, RESTful API
- **Language:** Python, SQL, JavaScript, Rust
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib
- **Database:** MongoDB, MySQL, SQLite, Mongoose
- **Tools:** MATLAB, AWS, Git, Docker, Jenkins
- **Platforms:** Jupiter Notebook, Visual Studio
- **Soft Skills:** Attention to Detail, Excellent Communication, Problem Solving

### EXPERIENCE

#### Intern | Synchrotron Light Research Institute

Jul 2020 - Sep 2020

- Conducted Synchrotron research alongside college students and researchers, applying advanced scientific methodologies.
- Gained valuable experience working within a specific industry, applying Learned concepts directly into relevant work situations.
- Gained hands-on experience in Python, C/C++, and MATLAB, increasing proficiency and technical skill set for computational analysis

#### E-Commerce REST API Server Project – ( [Link](#) )

In Progress

- Developed a scalable microservices e-commerce backend with Node.js/Express and MongoDB, leveraging Kafka for asynchronous, event-driven communication across user, product, cart, order, payment, shipping, and notification services.
- Secured all endpoints using JWT-based authentication and role-based authorization behind a centralized API gateway with reverse-proxy routing and CORS management.
- Containerized each service with Docker and orchestrated the full stack in a local Kubernetes (Kind) cluster, with end-to-end observability via Prometheus, Alert manager, and Grafana dashboards.
- Planning comprehensive unit and integration testing, automated CI/CD pipelines, tightened network policies and secret management, and future enhancements including order analytics and product recommendation engines.

### EDUCATION

#### Greystone College - Co-op/Work Experience full Stack Development

May 2024 - Present

- Gained hands-on experience in frontend and backend web development, mastering HTML, CSS, JavaScript, Node.js, and Angular.
- Built dynamic applications by connecting servers, databases (SQL, MongoDB, Mongoose), and APIs, while utilizing GitHub for integration and deployment.
- Strengthened technical and workplace skills through career workshops, project-based learning, and real-world co-op experience.

#### Mahidol University - Bachelor's degree Applied Science in Physics

Oct 2017 - Feb 2022

- Developed expertise in mathematics, physics, computational research, and numerical analysis.
- Practical experience in Python, C/C++, MATLAB, OpenCL, MPI, OpenMP, and Machine Learning.
- Conducted research on Martian surface structure, analyzing seismic frequency data from NASA's InSight mission.

### CERTIFICATION

#### IBM Machine Learning Professional Certificate

Feb 2025 - Apr 2025

- Developed expertise in machine learning algorithms, including KNN, PCA, and collaborative filtering for recommender systems in Python.

- Built regression and classification models, trained neural networks, and applied supervised and unsupervised learning techniques.
- Completed a capstone project implementing real-world machine learning solutions using open-source frameworks.
- Gained proficiency in ensemble learning, decision trees, feature engineering, hypothesis testing, and deep learning.

**Google Cybersecurity Professional Certificates**

**Dec 2024 - Feb 2025**

- Acquired hands-on skills to identify and mitigate common risks, threats, and vulnerabilities.
- Utilized Security Information network security, intrusion detection systems (IDS), and Event Management (SIEM) tools.
- Developed skills in Python, Linux, SQL, and cybersecurity analysis to protect networks, devices, and data from threats.