Le Hung Thien

Golang Backend Developer Intern

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Technologies

Languages: Go, JavaScript
Backend: Go (httprouter, standard library), JWT, bcrypt, PostgreSQL
Frontend: ReactJS, SCSS Modules
Tools: Docker, Unix command, Git, Postman, Make
Architecture: Microservices (basic), RESTful APIs, Clean Architecture

Education

FPT University, BS in Software Engineering   Sep 2023 – Apr 2027
- **GPA:** 3.5/4.0; awarded Honorable Student of Semester
- **Scholarship:** FPTU1000 – Scholarships for students with outstanding achievements nationwide
- **Certificates:** IELTS 6.0 Overall (2023), CS50x: CS50's Introduction to Computer Science

Projects

Greenlight – Go REST API for Movie Database   *github.com/thienel/greenlight*

Go-based movie database API with token-based authentication and PostgreSQL integration.
- Built **Go REST API** using **httprouter** and **PostgreSQL**, implementing CRUD operations with filtering, sorting, and pagination capabilities.
- Implemented token-based authentication system in **Go** with user registration, email activation, **bcrypt** password hashing, and role-based permission control.
- Developed **Go** application with rate limiting, CORS, structured JSON logging, input validation, and SMTP email integration.
- Optimized **PostgreSQL** operations with connection pooling, prepared statements, and database indexes for improved performance.

Technologies: Go, PostgreSQL, httprouter, bcrypt, SMTP

TikTok Clone – Full-Stack Social Media (Ongoing)   *github.com/thienel/tiktok-clone*

Microservices-based social platform with React frontend and Go/C# backend services.
- Developed responsive **React** frontend with SCSS modules, Context API state management, and custom hooks for API integration.
- Architected **.NET 9** main API following **Clean Architecture** with Entity Framework Core, SQL Server, and **JWT authentication**.
- Built dedicated **Go microservice** for video processing and analytics with **gRPC** inter-service communication.
- Implemented user authentication with email verification, password reset, and real-time username validation.

Technologies: Go, gRPC, React, SCSS, .NET 9, Entity Framework Core, SQL Server, JWT, Clean Architecture

Snippetbox – Go Web Application   *github.com/thienel/snippetbox*

Web application for managing code snippets with time-based expiration and secure session-based authentication.
- Developed secure **Go** web application with middleware chaining, routing, and session management
- Implemented authentication system with secure session storage, CSRF protection, and password hashing
- Used prepared SQL statements and input validation with **MySQL** to prevent SQL injection attacks
- Created modular HTML templating system with static asset embedding and reusable components

Technologies: Go, httprouter, alice, bcrypt, scs/mysqlstore, form/v4, MySQL, HTML templating