

Vinh Phat Tu

Github: github.com/lawclaw

Email : vphatmail@gmail.com

Mobile : +44 7533 81240

EDUCATION

- **Edinburgh Napier University** Edinburgh, United Kingdom
Bachelor of Engineering (Honours) in Computing; Predicted Grade: First *Sept. 2020 – est. Dec. 2024*
 - **Software Engineering Methods:** Agile, Scrum, CD/CI, VCS
 - **Operating Systems:** Shell scripting (sh, bash), Linux, Unix, Docker, Vim text editor
 - **Web Technologies:** HTML5, CSS3, ES6 (JS), Client-server model, the Internet, HTTPS
 - **Discrete Mathematics:** Set theory, primes, RSA encryption
 - **Algorithms and Data Structures:** Sorting, searching, time & data complexity, Big O notation, data structures
 - **Database Systems:** Database design, Entity relationship diagrams, MySQL, DDL, Normalisation

EXPERIENCE

- **JPMorgan Chase & Co.** Glasgow, United Kingdom
Software Engineer - Industrial Placement Intern *June 2022 - June 2023*
 - **Front-end development:** Developed a tool-kit and base application using ReactJS to be used for future applications, completed with E2E testing using Cypress and scaffolding using PlopJS
 - **Agile and Scrum methodology:** Partook and engaged in daily stand ups and sprints
 - **CLI exploration/development:** Explored Golang (Cobra CLI) for creating a CLI

PROJECTS

- **Markdown Report Generating Application**
Java, MySQL, Docker, GitHub Actions
 - **Main functionality:** Query MySQL weather database for data and parse response into formatted Markdown reports
 - **Containerization:** docker and docker-compose integrated into development cycle for seamless deployment and consistent app-to-app communication
 - **Unit testing and integration testing:** Writing tests in JUnit and tracking code coverage using Codecov.io
 - **CI/CD using GitHub Actions:** Streamlined and automated testing, deployment and releasing by using and configuring manifest files
- **Parcel Tracking Application**
C#, WPF
 - **Main functionality:** Read parcel deliveries from CSV file. User can add, edit, remove and move parcels between couriers and assign drivers to specific postcodes
 - **CRUD:** Researched and developed an application with CRUD functionality
 - **WPF and C#:** Using WPF forms to design GUI and C# to connect the back-end
 - **MVVM exploration:** Explored MVVM pattern as part of the development process
- **Command-line Sudoku**
Python
 - **Main functionality:** Sudoku game, rendered in the console. Users interact using predefined coordinates
 - **Game states:** Using a stack and memento pattern, allowed for quick access to game states
 - **Replay function:** Understanding replay functionality using game states
 - **Python curses library and other TUIs:** Explored the curses library alongside other Python TUIs

TECHNICAL SKILLS

- **Programming Languages:** Java, Javascript, Python
- **Developer Tools:** IntelliJ IDEA, PyCharm, VS Code
- **DevOps:** Kubernetes, Docker, GitHub Actions, Maven, Git
- **Frameworks:** React, Spring Boot
- **Languages:** English, Swedish, Vietnamese