Vinh Phat Tu

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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

EXPERIENCE

- **JPMorgan Chase & Co.** — Glasgow, United Kingdom
  Software Engineer - Year Long Intern (Industrial Placement) — *June 2022 - June 2023*
    - **Modernize .NET applications to TypeScript**: Modernized .NET applications used by operations teams within the firm, by creating ReactJS Web UIs with tools such as Jest and Storybook.
    - **Agile methodology and Scrum framework**: Practicing and proactively contributing to stand-up, retrospectives and planning, to alleviate balance between development and business deliverables
    - **DevOps and Developer Experience (DX)**: Improving and solving development cycle by creating templates for scaffolding, configuring CI/CD Jenkins pipelines, and writing shell scripts to automate repetitive tasks

PROJECTS

- **Markdown Report Generating Application**
  Java, MySQL, Docker, GitHub Actions
    - **Main functionality**: Query MySQL weather database for data and parse response into proper formatted Markdown documents
    - **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

AWARDS

Code For Good 2022 — Glasgow, United Kingdom
Winner for Beemmunity Challenge — *October 2022*

- **Hackathon**: Hosted by JPMorgan, to engage with NGOs as a way give back to the local community through technical solutions.
- **Challenge**: Developed a full-stack solution for non-governmental organisation Beemmunity using a cluster map, to raise awareness and break down communication barriers between beekeepers and farmers.

Oxford Hack 2022 — University of Oxford, United Kingdom
Winner for Best Use of AppWrite — *Nov. 2022*

- **Hackathon**: Hosted by University of Oxford for students to collaborate, innovate and create projects from scratch with industry sponsors such as Jane Street and Citadel
- **Submission**: Full-stack web application as an extension to Google Maps by displaying warnings and other information that be reported by users to increase awareness for bikers out and about.