

# DULAPAH VIBULSANTI

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## EDUCATION

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**University of Glasgow** Glasgow, UK  
*First Class Honours* • BSc (Hons) Software Engineering (Double Degree Program) Sep 2023 – May 2025  
*Endorsement: Specialism in Parallel and Distributed Systems*

**King Mongkut's Institute of Technology Ladkrabang (KMITL)** Bangkok, Thailand  
*BEng in Software Engineering* (Double Degree Program) Aug 2021 – Aug 2023

## RELEVANT EXPERIENCE

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**NatWest Group** Edinburgh, UK  
*Graduate Software Engineer (React.js, TypeScript, Vitest, Python)* Sep 2025 – Present

- Built a Vite plugin enabling variable usage in JSDoc comments, reducing code duplication across frontend teams.
- Implemented regression and visual-regression test suites with Vitest, achieving 75%+ code coverage to meet production-ready bank standards.
- Led migration efforts across an internal banking portal: adopting shared ESLint/Prettier configurations, upgrading to a modernised component library, and migrating test mocking from Nock to MSW.
- Developed Python tooling to generate deployment metadata for DORA metrics, parsing package-lock.json and Maven dependency reports to track library versions across SPAs and microservices and feed into a monitoring dashboard.

**NatWest Group** Edinburgh, UK  
*Software Engineer Intern (React.js, Python, Express.js, Java, MongoDB)* Jun 2024 – Aug 2024

- Created React.js UI boilerplate with TanStack forms and API hooks, accelerating project setup from days to hours.
- Automated release scheduling via Bash scripts and GitLab CI/CD, eliminating manual coordination overhead.
- Integrated open-source datasets (GOV.UK, ONS) with internal data to deliver insights and recommendations.
- Implemented key validation feature for “Consent to Let” project in Java, including test criteria and integration tests.

**King Mongkut's Institute of Technology Ladkrabang** Bangkok, Thailand  
*Front-End Developer (Next.js, TypeScript, Tailwind CSS, HeroUI, Figma)* Feb 2023 – Jun 2024

- Developed course pre-registration platform serving high school through graduate students, streamlining credit transfers.
- Implemented multi-layer authentication (email verification, CAPTCHA, token sessions) to secure student data and prevent unauthorized access.
- Optimized performance through reusable components, reducing load times and improving maintainability.

**Geo-Informatics and Space Technology Development Agency (GISTDA)** Bangkok, Thailand  
*Full-Stack Developer Intern (React.js, Node.js, PostgreSQL, Python, MapLibre)* Jun 2023 – Aug 2023

- Built spatial analysis tool correlating crop cultivation with burn incidents to inform government fire prevention.
- Pioneered integration of GISTDA's Sphere API Map into React.js as a reusable component with public documentation.
- Built secure REST API with SQL injection protection and deployed via Nginx reverse proxy for external access.

## TECHNICAL SKILLS & PROJECTS

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**Languages:** TypeScript, JavaScript, Python, Java, Go, C, C++, SQL, Bash

**Frontend:** React.js, Next.js, Tailwind CSS, Figma, Electron.js, UI Libraries (shadcn/ui, Radix UI, HeroUI, MUI)

**Backend & Data:** Node.js, Express.js, Spring Boot, Prisma, WebSocket, PostgreSQL, MongoDB, Snowflake

**DevOps & Testing:** Docker, GitHub Actions, GitLab CI/CD, Vitest, Playwright, Jest, MSW, Turborepo

**CodeX** • Next.js, TypeScript, Socket.IO, WebRTC, Monaco Editor

[GitHub](#)

Real-time collaborative coding platform with cursor sharing, live preview, video chat, and Git integration. Developed changeset-based synchronization, reducing data transmission by 72%. Final-year project at University of Glasgow.

**MFPA** • Electron.js, Next.js, TypeScript, Python, OpenLayers, SQLite

[Presentation](#)

Desktop application identifying geospatially-relevant files within user-defined regions, developed for Thales UK.

## LEADERSHIP & ACTIVITIES

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**NatWest SE Working Party Committee – Professional Development** 2025 – Present

Organize workshops, SME sessions, and technical challenges to support continuous learning for SE graduates, apprentices, and interns across the organization.

**Open Source Contributor** 2023 – Present

Contributed bug fixes to Cloudflare, OpenNext, and Fumadocs; submitted refactoring contributions to shadcn/ui; led Thai localisation for UniGetUI and blockchain-demo.