BIRAT KOIRALA

Software Engineer || Computer Science || Full Stack

@ koiralabirat@gmail.com　　📞 +44 7375 833 758　　in birat-koirala　　○ biratkk　　📍 London, UK

EXPERIENCE

Software Engineering Intern
FundApps

📅 July 2022 - September 2022　　📍 London

- Migrated a dynamic graph and chat box from monolithic .NET component to standalone React service, allowing the user to dynamically interact with and make changes to current and past asset disclosure information in real-time.
- Improved the rendering time of graph data loading and rendering by 150%
- Researched feasibility of integrating different technologies into the core application to assess their usability and implications on new features of the product.
- Implemented client side testing, automated integration and visual regression testing to ensure security and robustness using TDD practices.

PROJECTS

Connect4 ML

- Implemented AI Bot to play Player vs Environment (PvE) game
- Can play both PvP or PvE depending on user preference
- React front-end with Express back-end

Student Dashboard

- Implemented Calculator, Dictionary, Notes, Timer and Whiteboard features as different standalone products in one app
- JavaFX for front-end with Java for back-end
- Helped to increase understanding of Java and Java FX integration for scalable systems

Portfolio Website

- Fully react website with personal blogs
- App deployed in github pages
- Helped to develop React skills and understand React integration with other React libraries
- Click on title to go to site

Sudoku Solver

- Utilisation of backtracking algorithm to visibly solve Sudoku puzzles using Java
- Java Swing for front-end with Java for back-end
- Helped to understand backtracking as well as develop my UI skills with Java Swing

EDUCATION

B.Eng. Computer Science
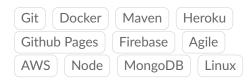**University of Leeds**

📅 2021 – 2024

International Baccalaureate
Dartford Grammar School

📅 2019 – 2021

Achieved 42/45 points

TECHNICAL SKILLS

- **React**
  - React-query
  - Playwright
  - React Native
- **TypeScript**
- **JavaScript**
- **HTML/CSS**
- **Java**
- **Python**

Git　Docker　Maven　Heroku

Github Pages　Firebase　Agile

AWS　Node　MongoDB　Linux

LANGUAGES

English ●●●●●
Nepalese ●●●●●
Hindi ●●●●○
Japanese ●●●○○
Spanish ●●○○○