

# Theo Kinder

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## ABOUT ME

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I graduated in Software Engineering from the University of Portsmouth, and I'm passionate about creating reliable, user-friendly applications that meet people's needs. I love turning vague ideas into concrete solutions that really work. As a freelance developer, I enjoy coding out of curiosity. I dive into datasets to explore insights and build apps that solve everyday challenges and improve the user experience. One of my proudest moments was when my team was nominated for the Outstanding Solution Idea for our H4MoD consulting project. This experience underscored the importance of teamwork, hands-on problem-solving, and my dedication to making a positive impact in the real world.

## EDUCATION

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### University of Portsmouth

*BSc Software Engineering*

2021 - 2024

Grade: 2:1 (69%)

## EXPERIENCE

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### Meridian (App) | *Typescript, Python, TensorFlow, PostgreSQL, APIs, AWS*

July 2024 – Present

- Developed an LSTM neural network forecasting app for the VATSIM flight simulator network, achieving a 35% accuracy improvement over my previous ARIMA-based approach
- Designed full-stack architecture using Flask backend, TypeScript frontend, PostgreSQL database and RESTful API endpoints
- Implemented AWS cloud infrastructure (Lambda, EC2, S3) for scalable application deployment
- Created automated data pipeline processing thousands of daily flight and air traffic control data points with validation
- Developed interactive visualisations for temporal patterns in air traffic controller activity to enhance user experience

### Distillery Metrics Dashboard | *R, Shiny, R Studio, Plotly, MS Excel, Python, Pandas*

May 2023 – June 2024

- Built a full-stack dashboard for a company specialising in digital monitoring of maturing spirits
- Worked with project manager to define requirements using agile scrum methodology
- Created solution selected as flagship application for client's 2024 Q4 software release
- Implemented responsive UI and API integrations for real-time spirit maturation data

### Hacking4MoD | *Team Member*

September 2023 – July 2024

Working in a team of 5 to advise the DIO (Defence Infrastructure Organisation) on assessing and proposing a solution for a provided problem statement.

- Arranging communications with personnel across the MoD and external organisations to gather problem-related contextual information.
- Delivering a report outlining the proposed solution, the structure of the solution and the strategy for implementation, along with the benefits and reasoning behind the proposal.
- Presenting the solution to senior DIO members and other interested parties, for their understanding and onboarding of the proposal.
- Solution implemented as of May 2024, ensuring greater transparency between local councils and the MoD through new clear communication channels and standardised reporting processes.

## OTHER EXPERIENCE

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### **Hacking4MoD** | *Volunteer Peer Mentor*

September 2024 - Present

- Supported a cohort of student participants via online forums and chat channels, offering guidance on research methods and project planning.
- Coordinated virtual study groups to foster collaborative problem solving and share best practices.
- Compiled and disseminated key MoD documentation and external resources, ensuring teams had timely access to relevant information.
- Organised and led remote briefing sessions for MoD stakeholders, streamlining feedback cycles and clarifying project objectives.

### **Hack Pompey 2025** | *Hackathon Participant*

- Built an interactive web dashboard during HackPompey 2025's "SeaChange" event to visualise port pollution data, completing the project within six hours
- Worked in a team of four to transform environmental datasets (CO2 readings, weather data, ship movements) into accessible visualisations for Portsmouth residents
- Developed a real-time ship tracking feature using location data, showing vessel movements on an interactive map alongside pollution readings
- Created a Node.js/Express backend to process environmental data and serve it through APIs to the JavaScript frontend

### **McDonalds** | *Crew Member*

October 2019 – February 2023

Exhibited excellent customer service skills by consistently delivering friendly and personalised interactions, resulting in positive customer feedback.

### **Sainsburys** | *Online Assistant*

July 2024 – Present

## INTERESTS

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### **Flight Simulation & Aviation**

With family roots in aerospace engineering, I've been drawn to aviation from an early age. I regularly attend the Farnborough Airshow to stay informed on industry developments and participate in flight-simulator communities. Here, I design tools like Meridian (Formerly TimeGuide) and develop traffic-forecast models for VATSIM, combining hands-on flight interests with software development.