

Kyle Noad – Software Developer

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PROFILE

Software Developer experience in full-stack development using JavaScript, Python, React, and SQL. Former documentary producer and director for BBC, Channel 4, and National Geographic, where I specialized in science and engineering documentaries. Skilled in translating complex technical concepts into clear, engaging narratives for global audiences. Passionate about building intuitive, data-driven applications that solve real-world problems. Seeking a software engineering role that blends analytical thinking with creative problem-solving.

TECHNICAL SKILLS

Languages: JavaScript, Python, C (fundamentals)

Back-end: Node.js, PostgreSQL, Express, Flask

Front-end: React, Next.js, React Native, HTML, CSS, Tailwind

Testing: Test-Driven Development (TDD) using Jest, Supertest, pytest and end-to-end testing using Playwright

Hosting: Netlify, Render, Supabase

Other: Pair programming, Agile and SCRUM, version control (Git/GitHub)

SOFTWARE PROJECTS

PlantVue

PlantVue is a Raspberry Pi-powered smart plant monitoring system built as my CS50 final project. It tracks soil moisture levels using a capacitive sensor and MCP3008 ADC, with Python, Flask, and Supabase for data storage. A React and Chart.js dashboard displays real-time and historical data, helping users maintain optimal plant health.

GitHub link: <https://github.com/kylenoad/plantapp>

Formula 1 Buddy

Formula 1 Buddy is a React Native and Expo Android app that delivers live data from Formula 1 races, solving my frustration of limited on-screen information. Built out of my love for Formula 1, the app provides real-time race statistics to keep users informed throughout the event. Integrated OpenF1 API for live race updates and telemetry.

GitHub link: <https://github.com/kylenoad/formula-one-RN>

Frame-of-mind

Frame of Mind is a creative storytelling app that helps you express yourself through art. Draw solo or collaborate with others to create comics. Created as part of a group project, frame-of-mind is built using Next.js for the front end and Firebase for the backend.

GitHub link: <https://github.com/kylenoad/frame-of-mind>

KN News Backend & Frontend

Full-stack news platform. Backend RESTful API for articles, users, topics, and comments with CRUD, sorting, and filtering (JavaScript, Node.js, Express, PostgreSQL), paired with a responsive React frontend for browsing, upvoting, and commenting.

GitHub backend link: https://github.com/kylenoad/nc_news

GitHub frontend link: <https://github.com/kylenoad/kn-news>

PROFESSIONAL EXPERIENCE

Junior Software Developer Trainee

Northcoders

Dec 2024 – Mar 2025

- Completed an intensive 13-week software development bootcamp focused on full-stack JavaScript development, covering React, Node.js, Express, PostgreSQL, and modern development workflows including Git version control and deployment pipelines
- Developed strong problem-solving and debugging skills through 100+ daily coding challenges, algorithmic problem-solving, and collaborative pair programming sessions.

- Implemented comprehensive testing strategies including Test-Driven Development (TDD), unit testing with Jest and Supertest, and end-to-end testing with Playwright.
- Delivered projects using Agile methodologies with sprints, daily stand-ups, retrospectives, and peer code reviews, simulating real-world software development team dynamics

Producer / Director

Windfall Films

June 2022 – May 2024

- Delivered high-profile science, engineering, and history documentaries for BBC, National Geographic, Channel 4 & Discovery
- Researched science, history, and engineering topics, liaising with engineers to understand complex systems and translating findings into clear scripts and structured documentation for 3D animation and accessible narratives
- Directed international location shoots (USA, Italy, Egypt, Jordan, Canada)
- Oversaw post-production to final delivery, meeting editorial, technical, and client standards

Producer

Pioneer productions, Windfall Films

Jan 2019 – May 2022

- Managed budgets, schedules, and resources to keep productions on track and within budget
- Scripted and structured documentaries to meet editorial goals and audience needs
- Directed shoots and supervised edits, shaping footage into final narratives

Assistant Producer

WAGTV, ITN Productions, Park Pictures, Windfall Films

Jan 2015 – Jan 2019

- Coordinated budgets, schedules, logistics, and contributors across multiple productions
- Supported directors and producers, ensuring smooth operations and efficient resource use

Researcher

Zigzag Productions, Barcroft Productions

Feb 2012 – Dec 2015

- Assisted with contributor sourcing, scheduling, locations, and story development across factual projects

EDUCATION AND CERTIFICATIONS

CS50x: Introduction to Computer Science

Harvard University, Online, 2025

Covered algorithms and data structures, programming in C, Python and JavaScript, SQL and database design, web development fundamentals (HTML, CSS, JavaScript), and problem-solving through real-world projects.

Film and Television Production Technology (BSc), First Class

Staffordshire University, 2006–2009

A-Levels: Computing, Physics, Media

Kings of Wessex Academy, 2003–2005