

Alec Pedersen

AI PRODUCT BUILDER

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I turn specialist knowledge into software: offline applications, online platforms, AI diagnostics and native audio tools. I define the brief and direct the build, using Codex and Claude Code for implementation and verification.

Former Lead Software Engineer at Ley Hill, with engineering roles at NewDay and Soundflow.

SELECTED PRODUCTS

IDEA TO IMPLEMENTATION

LIVE PLATFORM

Ley Hill Learning Platform

Built the live training platform that turns Word documents into editable courses. Connected organisation-specific access and learner-seat management to lesson progress, assessments, verifiable certificates and renewal reminders.

OFFLINE DESKTOP

RightCyber Desktop

Built an Electron app for Cyber Essentials consultants to manage clients, assessment answers, evidence and remediation locally. Added prior-assessment imports, evidence-pack exports and renewal history, with recovery after interrupted backup restores.

APPLIED AI

RightCyber AI Gap Analysis

Built a cyber-readiness diagnostic that turns business answers into prioritised action plans. Designed rules for critical gaps and prerequisite actions, then used AI to explain results while retaining control of recommendations. Added web and PDF reports, paid upgrades and email delivery.

AI DIAGNOSTIC

Invictus Leadership Diagnostic

Turned a 64-statement framework into scored leadership insights and personalised reports. Connected free previews to Stripe checkout, PDF reports and email delivery. Kept scoring under application control and validated AI interpretations against the calculated evidence.

NATIVE AUDIO

Gloss and Silk

Built audio plugins and standalone apps in C++ and JUCE. Gloss helps refine AI-generated tracks with a local neural model, before-and-after inspection and WAV export with loudness controls. Checked native outputs against the Python model. Silk adds brightness and stereo enhancement, presets and DAW automation.

Experience and practice

PROFESSIONAL EXPERIENCE

Ley Hill Consultancy Group

DEC 2023 - PRESENT

AI Management System Consultant (Info Sec)

Oct 2024 - Present

Management System Consultant

Mar 2024 - Oct 2024

Lead Software Engineer

Dec 2023 - Mar 2024

Combine software development with consultancy in AI and information security, helping organisations analyse, implement and audit management systems.

NewDay

JUL 2022 - MAR 2023

Frontend Engineer

Soundflow Music Academy

MAR 2019 - JUL 2022

Software Engineer

COMMUNITY

Bromham Good Neighbors

Digital Transformation Manager

Jun 2025 - Present

Built a charity operations platform for client records, volunteer assignments and assistance or transport jobs, with calendar updates, urgent-job tracking and quarterly Excel reporting.

EARLIER EXPERIENCE

Captum Records / Manager / Oct 2017 - Jan 2020

AS Mastering / Project Manager / Oct 2017 - Mar 2019

EDUCATION

City and Islington College

Music Technology, Music Production and Sound Engineering

2012 - 2014

BUILDING WITH AI

Use Codex and Claude Code to turn briefs into focused agent tasks. Supply context and acceptance criteria, coordinate work across repositories, review generated code and verify user journeys, including failure and recovery cases. Build reusable skills and automated checks.

MORE WORK

Fold

An offline app that organises music stems and assets for different recipients, flags missing material and exports folders or ZIPs with handoff notes.

Automation OS

An AI workspace connecting email, calendars and tasks through reusable workflows, with cloud and local models, approvals and audit trails.

Content production

Pipelines turning training documents into narrated, animated lessons using document extraction, ElevenLabs speech and browser rendering.

QUALIFICATIONS

BSI

ISO/IEC 42001:2023 AI Management System Lead Auditor

NOV 2024

NQA

ISO 27001:2022 ISMS Lead Auditor Training

OCT 2024

The Alan Turing Institute

Assessing and Mitigating Bias and Discrimination in AI

JUL 2025