Liam **McLeod**

Software Engineer, Consultant & Developer

https://liammcleod.co.uk

CONTACT

Liam McLeod
l.mcleod95@gmail.com
+44 7936 016 617

Nationality: British

Dev
Languages

- *JavaScript*
- *Node*
- *PHP*
- *Java*
- *Python*
- *HTML*
- *CSS*

Frameworks

- *React*
- *VueJS*
- *Electron*
- *Express*
- *Koa*
- *Laravel*
- *ReactPHP*

Ops
Database

- *MySQL*
- *MariaDB*
- *PostgreSQL*
- *MongoDB*
- *SQL Server*

Technologies

- *Apache*
- *NGINX*
- *Redis*
- *WebSockets*
- *ElasticBeanstalk*
- *ELBs*
- *EC2*
- *RDS*
- *S3*
- *ACM*
- *R53*

Cloud
- AWS

Other

- *Docker*
- *Linux*
  - Debian
  - Ubuntu
  - CentOS

PROFILE

I am a developer with 9 years of experience, 7 of which have been within a professional setting working within teams or for organisations. While my background began primarily academic in scope having started my career working closely with teachers and academics, it has given me a drive especially when learning new technologies and frameworks and also given me the opportunity to develop my skills as a developer in providing technological solutions to problems.

I am an experienced developer who is demonstrably able to take on responsibilities way beyond that, stretching to deployment, leadership, consulting and product architecture. I have held development roles in many teams and organisations, leading several projects throughout my career and working on personal projects for leisure to further hone my craft and learn new things.

PROFESSIONAL CERTIFICATIONS/EDUCATION

QUALIFICATION	INSTITUTE	LEVEL	COMPLETION
Computer Science	Bexhill College	AS	2015
Psychology	Bexhill College	A2	2015
Science & Society	Bexhill College	A2	2015
Specialist Diploma in IT	Bexhill College	Level 3	2013
Information Technology	The Grove	Level 2	2011
English & Literature	The Grove	GCSE	2011
Mathematics	The Grove	GCSE	2011
Science (Triple Award)	The Grove	GCSE	2011

WORK EXPERIENCE

Network Diagnostics Ltd
Lead Software Engineer

Network Diagnostics Ltd (**NDL**) is a software company founded to create a cloud-based network management & automation solution for enterprises and MSPs, or any company with a managed network.
The company is privately funded and I have worked for them from the day development started, working on the software full time with a wide array of responsibilities.
My role as lead software engineer is to work closely with the managing director to see that his vision for the platform was realised, assist in steering the technological aspects of the software, manage and work closely with contracted staff, database design and implementation, full design and implementation of the software, full-stack development of the platform and accompanying software, cloud deployment and implementation, documentation and more.

Duties, Responsibilities & Achievements

- **Full-Stack Development** – Designed and developed the first iteration of the platform from the ground up, making large decisions for the future of the product on key technologies, frameworks, ensuring that the technologies used met the needs of the platform and that the ecosystem available within those was robust enough to simplify future expansion. Front and backend development and maintenance of the platform, documentation and meeting investor goals.

- **Software Development** – Designed and developed an accompanying software that remotely connects to our cloud platform via secure WebSockets to communicate sensitive data in real-time. Maintained and deployed on several customer networks.

- **DevOps** – Infrastructure designed from the ground up, dockerizing infrastructure, AWS cloud deployment and management (EB, EC2, ACM, R53, CLBs, Autoscaling, WebSockets and more), WebSocket infrastructure, database design, implementation and management (PostgreSQL), asset and repository management and more.

- **Lead** – I participate in the screening, selection and interviewing of candidates for development roles on NDL products, writing scope of works, writing investor decks, wrote and co-wrote key documentation to meet investor needs and specifications, working closely with the managing director to ensure investor tranches are met.

Duration *May 2020 – Current*

<div align="center">

Freelance – **Projects of Note**
Full-Stack Developer

</div>

Duration *March 2016 – September 2020 | July 2022 - Current*

<div align="center">

RevisionRocks
Database Manager

</div>

A GCSE revision platform. Schools subscribed to the platform, providing log-ins to their students so that they could track student's progress, the level of activity and revision they were doing. I maintained and hosted the cloud database until end of life.

Duration *August 2017 – May 2019*

<div align="center">

Credence
Lead Developer (Full-Stack), Database Manager

</div>

An academic confidence, rating and debating platform. Credence was intended for use by university students (or users with verified .ac accounts) to discuss, debate, provide academic papers and sources and finally provide a confidence rating on the particular topic of debate. This was a dynamic rating changing throughout the course of the discussion as more resources or users pitch in. Statistics and data gathered from that were to be used to generate graphs demonstrating over time how users swayed over the course of discussion, as well as what comments and academic papers contributed to that. The platform had a private event system by which an event could be created, invites distributed, and users could attend real-life debates taking place at universities, starting by giving their confidence rating on the subject matter, allowing the analysis of users' change in confidence in real-time as the debate progressed. This was pitched as a concept with considerable interest from Cambridge University.

Duration *March 2016 – June 2019*

<div align="center">

Examplar
Lead Developer (Full-Stack), Database Manager

</div>

Examplar was a search tool for a complete history of archived exam papers for schools to subscribe to. Teachers could use the platform to quickly generate mock exam papers, the accompanying marking criteria, and provide students with log-ins that could be used to revise, mark and gain better understanding of the criteria by which their examinations would be assessed against. This product started and gained interest within the IT department at Bexhill College where it was conceived.

Duration *September 2015 – September 2016*

<div align="center">

H&R LP
Developer, Administrator / Webmaster

</div>

I developed the frontend of a local organisation's web-presence, managed the users, access and privileges, mail accounts, support and event access for real-life events. I was the single point of contact for web-based activities within the organisation, which involved producing and posted articles on their behalf for their online publications.

Duration *September 2017 – September 2020*

<div align="center">

Bexhill College
IT Faculty Support Staff

</div>

Supporting the department as their faculty size grew and the student applications increased massively, my role as IT Faculty Support Staff involved supporting teachers and students attending the college, providing additional lessons, exam preparation and coursework support for Level 3 IT diplomas, Computing and Computer Science A-Level, as well as general equipment and display maintenance.

Duties, Responsibilities & Achievements

- **Programming Courses** – Providing support, lessons and tutorials mainly in Java, VB.NET, PHP, HTML, CSS and JavaScript to students

- **Supporting Staff** – Assisting students one-on-one during lessons and producing teaching resources (lesson plans, worksheets, guides, tutorials, testing and marking).

- **Supporting Students** – One-on-one tailored programming support sessions, group programming, worksheets, testing and made available all day to assist students at any time.

- **Progress Monitoring** – I assisted in tracking and monitoring the progress of students of those years, identifying students in need of support in key areas of study. Ultimately with the additional support received, the department saw some of the highest results in years, according to the department head.

- **Coursework Support** – Assisting students AS, A2 and Level 3 students with their coursework including their final programming projects.

- **Development** – Creation and maintenance of a bespoke full-stack application for touch interactive displays used in the IT Faculty.

Duration *September 2013 - July 2016*