

# Mathew Kennedy, BA (Hons)

Software Engineer *Curriculum Vitae*

I'm a passionate and creative software engineer currently working on financial dashboards, websites, AI integrations, and Software as a Service for TAB, a bridging and mortgage company.

In college I acquired a National Diploma in computer science, and I later graduated from a full-stack engineering traineeship, where I completed several jobs to specification, including wire-framing, unit testing, and user acceptance testing upon completion.

I build and maintain my own computers and keep up with the latest technologies – they're a passion I build with every day, and I'm currently studying web3 programming. My computer science fundamentals allow me to jump easily between languages, frameworks, and tech stacks. I love using my logical and creative sides together.

I have a degree in film and have sold intellectual rights to Phillips, Canadian Club, and Comfort. Coming from a highly collaborative and time-sensitive background in film, I'm very experienced working in teams, acting positively on criticism, and meeting targets in high-stress environments.

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## Technologies Frequently Used



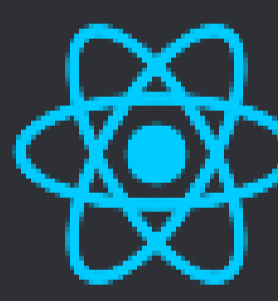
HTML5



CSS3



Javascript



React



Redux



PHP



Laravel



Node



GraphQL



Python



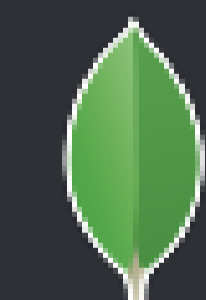
C#



Github



SQL



MongoDB



AWS

## Additional Technologies



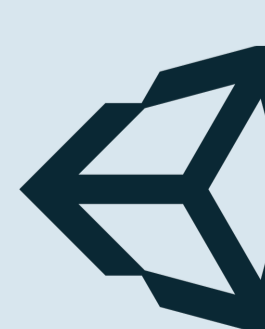
Solidity



Hardhat



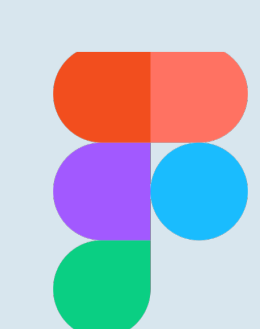
Java



Unity



Photoshop

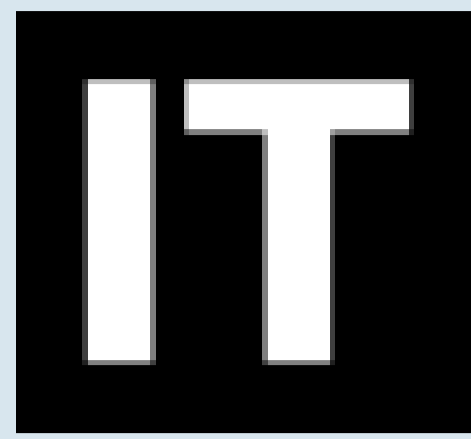


Figma



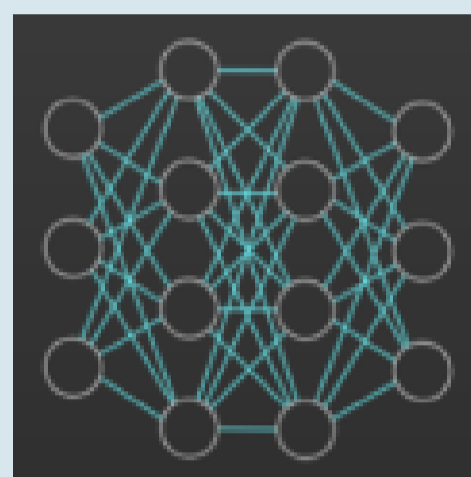
Supabase

## Qualifications and Courses



Full Stack Engineer Trainee  
**IT Career Switch**  
*03/2022 - 06/2023 (Graduated)*

During this traineeship, I had to complete courses on a very wide range of technologies, old and new, and demonstrate a proficiency in HTML5, CSS3, Javascript, jQuery, React, PHP, SQL, Java, Python, C#, Node, Command Line Git, Github, and remote API access. I acquired Codecademy certificates in these technologies. Many of the course projects were collaborative, and I learned how much I love collaboration and giving back as much knowledge and help as I take.



Online / Book Course  
**Neural Networks from Scratch in Python**  
*01/2023 - 03/2023 (Completed)*

I completed this course following the book by Harrison Kinsley and Daniel Kukiel, building a basic classification neural network in Python using only numpy and no other libraries. I always like to know what's going on inside libraries and this course gave me a strong understanding of the fundamentals and concepts of perceptrons and neural networks, and delved into the real maths inside the classes and functions of libraries such as Tensorflow.



Web3 Full Stack Course - Solidity, Chainlink, Hardhat, React  
**FreeCodeCamp**  
*04/2023 - 05/2023 (Completed)*

This 32 hour online course by Patrick Collins was incredibly in-depth and I built several full-stack web3 projects on test networks along the way, learning how to write clean, secure, professional smart contracts in Solidity, how to thoroughly test these and analyse test coverage, how to deploy using ethers and hardhat in both vanilla Javascript and React, and how to interact with blockchains and oracle networks such as Chainlink from Javascript applications. I learned to think automatically about the space-time complexity of algorithms - on chain, more computation means more gas fees!



BA (Hons) in Film  
**Sheffield Hallam University**  
*09/2008 - 07/2011 (Graduated)*

I graduated from Sheffield Hallam University, specialising in photography and cinematography. I developed a professional understanding of photography, images, colour-grading, editing, and working collaboratively on creative projects in very large crews.



BTEC National Diploma in ICT  
**Wakefield College**  
*09/2006 - 07/2008 (Graduated)*

I graduated from Wakefield College with a BTEC National Diploma in ICT. The course was comprehensive, covering computer hardware and safety, CPU architecture, networking hardware and protocols, data structures, and the basics of programming.

## Current Employment



**TAB.**

*Software Engineer*

24/07/2023 - Present

At TAB I work full-stack, full-time on a small, efficient team of five developers.

I develop, test, and maintain the internal financial dashboards, both for TAB and for customers of the Software as a Service.

I develop, test, and maintain the website, which allows users to invest in properties and loans. It also includes an exchange for shares.

I also test and integrate AI services, such as:

- GitHub Copilot for our developer's IDEs
- ChatGPT for our website help chatbots
- Bedrock to allow underwriters to summarise documents on our dashboards

I joined the company as the codebase was being adapted to be provided as SaaS, and so the work is a masterclass in modular, clean, scalable code and configurations.

I've learned a lot about property, finance, and accounts whilst working at TAB, and at the end of 2023 we were nominated for the "Scaling at Pace" award at the UK PropTech Awards, 2023.

## Employment History

*Administration Lead*

*Operose Health / AT Medics*

01/2019 - 04/2022

- I distributed the surgery's workload across a team of 10 people, made sure it was completed on time, and documented it correctly.
- I hosted clinical meetings with the GPs twice per week, ensuring the information discussed was logged, actioned, and remained confidential.
- I assured targets were met for long-term illnesses reviews.
- I compiled medical reports for legal companies and for patients themselves, ensuring GDPR compliance.

*Sales Assistant*

*Mountain Warehouse*

03/2016 - 01/2019

- I assisted customers personally on the shop floor, listening to their trip plans and requirements and providing clear information and advice about the outdoor equipment.
- I cashed up at the end of each shift, and transported cash to/from the company's bank daily.
- I took in and logged deliveries.

*Continued...*

*English Teacher, Farmer, Au Pair*  
Various / Travelling Europe  
01/2015 - 11/2015

- I constructed fences and paths on a farm in northern Evia, Greece.
- I lived with and taught intermediate English to three Spanish brothers for a family in Barcelona.
- I lived in and taught from an English school in Patras, Greece.
- I lived in and taught from an English school in Adria, northern Italy.

*Camera Operator Intern*  
Casual Films  
11/2012 - 12/2012

- I assisted the main camera operator with setting up cameras, lights, cables, and a wide range of other equipment.
- I helped producers in-house with phone calls regarding locations, hotels, props, and equipment.
- I took part in creative meetings.

*Camera Operator Intern, Editor*  
O2 UK  
1/2011 - 11/2011

- I assisted the main camera operator with setting up cameras, lights, cables, and a wide range of other equipment
- I helped producers in house with phone calls regarding locations, hotels, props, and equipment.
- I completed editing jobs for live events.

*Photographer and Videographer*  
Self-Employed  
11/2012 - 01/2015

- I acquired and arranged freelance photography and videography jobs for a wide range of purposes, including weddings, corporate, and personal film and music projects.
- I edited photo and video, including colour grading, for delivery.
- I ensured an inventory of all gear and tools required for each job.
- I set up and took down equipment on set, and ensured cables and obstructions were health and safety compliant.
- I communicated with clients in person and in writing regarding their requirements, creative ideas, and budget.
- I did much of the driving, often with clients and other professionals as passengers.

*Camera Operator Intern, Editor*  
Mezzo Films  
11/2011 - 11/2012

- I assisted the main camera operator with setting up cameras, lights, cables, and a wide range of other equipment.
- I helped producers in house with phone calls regarding locations, hotels, props, and equipment.
- I completed small editing jobs as part of larger projects when there were no shoots.

## Technology is my passion...

... not just my work. In my own time, I build things for myself frequently for the love of technology, creativity, and problem solving. I love to dive deep into electronics, networking, and advances in technology, and as I grow I hope to develop applications and software that help to solve real problems, applications I can be proud of.

I'd love to hear from you!