

MATT HOPE

Tech Lead

CONTACT

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PROFILE

A professional Tech Lead with a decade of commercial software development experience, focusing on innovation and leveraging current technologies to build large scale enterprise applications. In-depth experience in requirements gathering, sprint planning, development, design, maintenance, and testing of software. Broad expertise in various platforms, frameworks, and technologies with a proven ability to efficiently lead teams to work in a collaborative way to deliver projects on schedule.

SKILLS

Frameworks & Technologies

Azure, AWS, .NetCore, .Net Framework, BDD, TDD, Event sourcing, Message brokers, REST API, gRPC, Web Sockets, EntityFramework, VueJs, React, Angular, KnockoutJS, Wordpress

Expertise

Web Development, Continuous Integration, Complex systems, Software architecture, Performance optimisation, Business intelligence, Microservices

Programming Languages

C#, SQL, VB, Java, PHP, Python, JavaScript, TypeScript, HTML, CSS

WORK EXPERIENCE

Tech Lead

Innovation group | 07/2022 - Present

- Mentored and upskilled my entire team from BE/FE only developers into full stack roles. Which drastically improved the performance and reliability of our team as they are now able to work on any area of tech.
- Architected and led the team on developing an interactive workflow UI. The UI gave our customers the ability to have full autonomy over their own workflows which helped us onboard new partners and clear up a huge amount of hardcoded tech debt.
- Took the initiative to completely re-architect the QA team's approach to E2E testing. Which enabled more reliable E2E tests and boosted productivity company wide.
- Architected and led the team on developing a new complex rates management system whilst working closely with product. This new system opened up the door to multiple new partner and supplier customers as we can now give them the ability to manage their rates through our system as a SaaS product.
- Fixed scalability issues by solving problems around async call blocking which resulted in a 1000% increase in request throughput and stabilised concurrent calls from an average response degradation of 60,000% to only a minor 5% degradation instead.
- Achieved MVP employee of the year again in my second year of working at innovation group (2022)

Soft Skills

Leadership, Mentorship, Strategic thinking, Time management, Creativity, Communication, Critical thinking

EDUCATION

First Class (Hon.) - BSc Computer Science in Digital and Technology Solutions (Software Engineer)

University of Essex | 10/2017 - 09/2019

HONOR AWARDS

Academic Prize: Dean's List for Excellence

University of Essex | 2016 - 2017

CERTIFICATES

Academic Prize: Dean's List for Excellence

University of Essex | 2016 - 2017

ACHIEVEMENTS

Hacktoberfest

10/2020 - 11/2020

Hacktoberfest

10/2019 - 11/2019

Senior Full Stack Developer

Innovation group | 04/2021 - 07/2022

- Implemented a new FE caching strategy that drastically reduced the request count. Which resulted in platform wide speedup and stability
- Containerized the entire platform, created some interactive CLI tools and set up nightly image pipelines. Which as a result solved the issue the entire tech team had with local development/testing.
- Achieved MVP employee of the year after passing my probation (2021)

Software Consultant

Fundipedia (Sibling company of Atlas) | 03/2020 - 04/2021

- Architected, developed and led the production of new microservices and as a result increased the performance, cost-savings, and scalability of Fundipedia.
- Led the R&D and Innovation for Fundipedia which resulted in new business intelligence reporting integration to further equip customers with the data they need to make smart business decisions.
- Applied innovation to leverage a range of new data analytics and comparison technology which resulted in the generation of new sales leads.
- Produced a variety of articles and marketing material for Fundipedia which improved the company profile and improved market exposure.
- Took a leadership role during crisis by mentoring my subordinates to approach complex or catastrophic problems with an open mindset and logical approach resulting in increased service stability and client confidence.

Full Stack Developer

Atlas Computer Systems LTD | 07/2015 - 03/2020

- A mobile app for stock management was launched and developed with Nativescript, which eventually lead to OS compatibility issues. I took lead on this project and successfully completed a re-write of a mobile app from Nativescript to Xamarin, resulting in better performance, logging, integration, and continued OS support.
- The company consistently had issues with spinning up new instances of products in the cloud. I took the initiative and developed from scratch a cloud infrastructure automation system, subsequently, this allowed the company to spin up new instances of products with a click of a button, removing all previous manual intervention.
- Successfully created and led a project to develop a new .Net Core REST API for an existing product and as a result, helped us secure new client contracts.
- Applied differential diagnostic to leverage multiple CI platforms for existing products, this resulted in a boost of productivity, reliability and security in the current software development lifecycle.
- Developed and implemented a full caching layer implementation by leveraging Redis which resulted in a huge 99.4% boost in performance of data retrieval.
- Led and managed the development of a new partner portal for an existing product resulting in the onboarding on new partners.
- Completed computer science degree whilst also working full time. This was an extremely challenging time for me as both demanded tasks to be completed on time. This required very high commitment and perseverance, but I was determined to succeed and graduated with a First Class (Hon.) degree.

Apprenticeship Software Developer

Atlas Computer Systems LTD | 07/2014 - 07/2015

- StaffSquared was launched with the intention to provide HR management in an online solution however it had many bugs due to legacy issues. I took lead in creating the appropriate solutions which resulted in the eradication of the known bugs within 6 months. Learned the ropes of C# and front-end development which allowed me to further progress to the next stages of my career.
- Successfully completed my apprenticeship which resulted in me receiving a level 3 diploma.

PUBLICATIONS

- **.Net core host builder for Xamarin? Yes please!**
- **Chatbots? My first machine learning experience**
- **Compilers - One of the more intimidating projects**
- **Defining types at runtime? why not...**
- **Free secure hosting with GitHub pages and Cloudflare**

PERSONAL PROJECTS

Muck Away

12/2021 - Present

Developed a full stack SaaS solution for the haulage industry. The product was split into two areas, the admin portal which allowed admin users to update and setup all of their contractual data and a mobile app for drivers with esc/pos thermal printing capabilities. The entire product was built with microservices and included a custom identity server and mail outbox.

Sourcey

01/2020 - Present

Developed and published an open source C# library for event sourcing. I noticed that there is a lack of tooling in the c# space for ES that's easy to just opt into the parts you want without having to follow an overly appoinionated flow. So I decided to use my experience and expertise to create something fresh and consumer friendly.

Sound it Out

07/2020 - Present

Founded and developed a full stack enterprise SaaS product that provides users with an online portal to generate audio books from their files using a range of ML techniques. My passion and enthusiasm led me to create this open source product, I was determined to use the latest technology and best practices.

Hostly

05/2020 - Present

Developed and published a NuGet package called Hostly. Hostly is a .Net Core style host builder for Xamarin forms, which allows consumers to take full advantage of the .Net core ecosystem in Xamarin forms projects.

Chatbot

01/2019 - 09/2019

Developed a pure ML chatbot built using an NMT model paired with a REST API for easy consumption.

Clipboard

07/2020 - Present

Developed and published a NuGet package for easy text extraction from a range of supported file types (.pdf, .docx, .xlsx, .txt, .xml, etc)

Blocker

10/2018 - 11/2018

Developed a turned based multiplayer game in Java