MAX MACKIE
Full Stack Developer

✉ mprmackie@gmail.com

☎ 07394967670

⌖ Camberwell, London, UK

in linkedin.com/in/max-mackie

⌗ github.com/max-mackie

SKILLS

JavaScript / Node.js	5 years
-React	2 years
- Vue	1 year
HTML / CSS (SASS)	5 years
REST APIs (Express)	4 years
Python	6 years
-Flask, Django	2 years
Cloud: GCP	2 years
SQL: PostgreSQL	3 years
NoSQL: MongoDB	3 years
Tests: Jest, Pytest, TDD	2 years
Docker & Kubernetes	2 years
ML: Keras, TF	1 year
Agile Development	2 years
CI/CD	2 years
Git / GitHub	5 years
Systems Architecture	2 years

PUBLICATIONS

IEEE ISGT 2021
European Conference
Machine Learning Based Load Balancing Algorithm for Geographically Distributed Data Centres

EDUCATION

MEng (2:1 - 69.7%)
Mechanical Engineering
Durham University 2017 - 2021
Key Modules:
 - Algorithms and Data structures
 - Programming Fundamentals
 - Computer Architecture
 - Control Systems

A-levels: A*A A A
Physics, Geography,
Maths, Chemistry
Fettes College 2014 - 2016

PERSONAL SUMMARY

Driven by a strong interest in technology, I bring a robust programming background from my university education and La Fosse Academy. At BMI I bolstered my project management skills and commercial experience, notably by using GCP to automate business processes. During my Masters, I presented and published a computer science research paper on a machine learning-based load-balancing algorithm at the IEEE ISGT 2021 European conference. With experience in project management, software development, I am eager to bring my software engineering skills to the role and contribute to a team that shares my excitement for technology and innovation.

WORK EXPERIENCE

La Fosse Academy
Placement at BMI Group | Digital Innovation Developer
📅 December 2021 - Current

Software Engineer & Systems Development
- Engineered a scalable, automated data collection system across 30+ plants, seamlessly integrating with SCADA and leveraging GCP and App Script to reduce data inaccuracy by 95% and saving 100+ labour hours per week.
- Led the development and deployment of a highly efficient project management tool for the CMO, leveraging AppSheet and Looker Studio, enabling senior leadership to make data-driven decisions, and streamline the project lifecycle.

Agile and Process Optimisation
- Optimised development workflows by implementing an Agile governance framework with GitHub and Jira, accelerated project delivery by 20%.
- Developed 48 projects enhancing operations in 29 countries, impacting 5000+ users.

Data Analytics & Business Intelligence
- Built and implemented custom data connector APIs for ServiceNow, enabling real-time data integration with Looker Studio; resulting in improved service desk operations and Improved system reliability by 10%.

Leadership in Innovation & Project Management
- Managed a company-wide strategic transition from Microsoft to Google workspace, collaborating with cross-functional teams and senior stakeholders while managing a network of 300+ change agents across 35 countries, achieving £2.8M in cost savings.
- Orchestrated a corporate hackathon to ignite innovation skills development, managing end-to-end project delivery and collaborating with Google to produce 17 applications, yielding £132k in savings.

La Fosse Academy Software Engineering Bootcamp
📅 September 2021- November 2021
- Graduated from a 13-week intensive web development boot camp, acquiring advanced skills in modern programming and development techniques.
- Developed over 10 websites, employing Agile, code review, CI/CD, and DevOps practices to streamline workflow and ensure high-quality outputs in team settings.
- Represented and advocated for La Fosse Academy associates as an Advisory Board member, playing a pivotal role in strategic planning and leading to significant enhancements in program effectiveness and overall associate satisfaction.

E-commerce Trader
📅 March 2020 - July 2020
- Conducted retail arbitrage for inventory buildup, reselling online. Managed business operations: financial tracking, inventory coordination, marketing.
- Averaged 50 weekly sales and shipments. Demonstrated resilience and flexibility by sourcing income during the first national lockdown.

Freelance Web Developer
📅 July 2019 - October 2019
- Engineered and deployed diverse web solutions using HTML5, CSS3, ES6 JavaScript, and React, emphasising responsive design and SEO. Integrated RESTful APIs for dynamic content management.
- Designed and hosted a scalable backend using the Express framework and MongoDB on AWS, ensuring efficient, large-scale data handling with reliable access.