lukacstomi91@gmail.com ✉ | +44 75-6565-2449 📱 | Cambridge, UK 📍 | linkedin.com/in/tamas-lukacs 💼 | tamaslukacs.github.io 🐙

TAMAS LUKACS

Senior software engineer with **7 years of professional experience** adept at **data engineering** and automation with a proven track record in designing and building data pipelines and data-driven applications while **catering to both cloud-native and hybrid environments**. Committed to fostering innovation and known for a methodical and versatile problem-solving approach.

WORK & LEADERSHIP EXPERIENCE

MOSAIC SMART DATA / SENIOR SOFTWARE ENGINEER - DATA ENGINEERING TEAM (5 👥) / REMOTE, UK / MAY 2022 - PRESENT

- **Designed and realised Extract-Load-Transform pipeline & custom data lake solution** | Airflow, AWS, DBT, Ktor | 6 MONTHS (TEAM)
  ► Improved large client data processing & empowered new ML features, optimised data workflows
- **Orchestrated cloud-native ML pipeline for client data feature extractions** | AWS ECR/SageMaker, Docker, Spark | 3 MONTHS (TEAM)
  ► Established an innovative R&D platform for data scientists, enabling the introduction of new features and attracting new clients
- **Performed cause analysis, stress testing and backend rework to address system instability** | Numba, Pandas, Python | 3 MONTHS
  ► Averted further system downtimes, eliminated queryable data limitations, leading to more accurate ML predictions
- **Spearheaded design, implementation and optimisation of serving ML model predictions** | AWS Lambda/APIGW, Kotlin | 2 MONTHS
  ► Integrated ML pipeline with the front end, significantly enhancing user experience by reducing loading times by 80%
- **Productionised concepts related to chatbot and natural language offerings** | Docker, Flask, GitLab CI/CD, Kubernetes | 2 MONTHS
  ► Strengthened company portfolio and increased client engagement, resulting in the acquisition of new clients
- **Provided on-call support for live client production environments** | Airflow, AWS, Datadog, Grafana, Linux, Postgres | 1 WEEK/MONTH
  ► Mitigated system failures, delivered hotfixes and ensured system uptime, collaborated effectively with cross-functional teams
- **Regularly interfaced with CTO providing updates on project progress & discussed strategic objectives** | 12 MONTHS
  ► Operated effectively without direct supervision, demonstrated self-motivation & decision making in alignment with company goals
- **Collaborated with junior colleagues to navigate legacy technology stack challenges** | 2 MONTHS
  ► Assisted colleagues in overcoming challenges, contributed to their onboarding and to the overall success of the team

QUALCOMM / SENIOR ENGINEER - RADIO INTEGRATION & OPTIMISATION GROUP (16 👥) / CAMBRIDGE, UK / JAN 2017 - MAY 2022

- **Led receive subsystem testing for IoT Bluetooth chip from design until production integration** | BT SIG PHY, Python | 18 MONTHS
  ► Instrumental in winning a critical new contract through expedited delivery (8 weeks) and reinforced cross-site collaboration
- **Developed framework to debug BT audio in presence of interference** | pyAudio, Matplotlib, Pandas, ScyPy, Qt | 9 MONTHS
  ► Pioneered in correlating RF and firmware, advised customer on mitigation, unblocked product release & expanded group's role
- **Attained technical authority & engineered framework to analyse particular BT standard compliance** | Python, Qt | 12 MONTHS
  ► Rectified FW bug, boosted Adaptive Frequency Hopping algorithm across all Qualcomm connectivity chipsets
- **Architected unified physical communication layer for chip control across sites** | LibUSB, Python, Qt | 12 MONTHS
  ► Delivered working concept, strategically targeted to phase out existing solutions for the next gen chipsets by end of 2022
- **Conducted structured classes to provide mentorship in Python and Object-Oriented Programming** | 12 MONTHS
  ► Mentored colleagues, contributing to their professional development and strengthening technical expertise within the team

QUALCOMM / UNIVERSITY OF GLASGOW MEng PLACEMENT & THESIS – RIOG / CAMBRIDGE, UK / JUL 2015 - DEC 2015

- **Automated testing and reporting,** saving 3 weeks of engineering time per chip project | MATLAB, Python, SQL, Win32com | 4 MONTHS

SKILLS & COMPETENCIES

- Proficient in **Python**, intermediate in Kotlin, SQL & C
- Experience in utilizing a wide range of **AWS** services (Athena, Lambda, RDS, EC2, S3, SageMaker, SNS, SQS)
- Adept at utilizing **CICD** tools (Docker, GitLab, Kubernetes)
- Accomplished in **architecture design** (OpenAPI, CDD)

- **Agile** Methodology Mastery with Scrum Master Certificate
- Skilled **mentor** providing candid feedback
- End-to-end **project management** with focus on requirements
- Proactively **taking initiative** to apply the 20/80 rule
- Assertive, concise communicator, fostering collaboration

EDUCATION & ACHIEVEMENTS

UNIVERSITY OF GLASGOW, UK / MEng ELECTRONICS & ELECTRICAL ENGINEERING / FIRST CLASS HONOURS (90%) / 2011 – 2016

- **Institution of Engineering and Technology Prize (2016)**
  Awarded to outstanding student who shown distinction during entire IET accredited course (Engineering Excellence List & Francis Morrison Awards (2011, 2012, 2013, 2016)

- **UK Electronics Skills Foundation Scholarship (2013-2015)**
  Connects most capable Electronics undergraduates with industry partners, facilitated engineering internship at CSR (2014, 3 month) and offered workshops that focus on practical and leadership skills

ACTIVITIES & INTERESTS

DIY & Home Automation 🔧 | 3D design & print 🖨 | Volleyball, Bouldering, Table Tennis 🏐 | Supporting autistic children's education ❤