# Silviu Toma

### Innovator and maker with 7 years of engineering experience

☎ available on request · ✉ silviutoma2@gmail.com · 🌐 www.silviutoma.com

## EDUCATION

**University of Cambridge** — Magdalene College
*BEng, MEng, Information Engineering* — 2013 – 2017
- 1st Class for Master's Thesis
- Award: Magdalene College Prize for Engineering
- Award: Singapore Institute of Technology Scholarship

**Tonbridge School** — Parkside House
*Triple Mathematics(A\*A\*A\*), Physics(A\*), Chemistry(A)* — 2011 – 2013
- HMC scholarship of excellence (more than £100k in tuition fees)
- Award: Mathematics Scholarship for achievements in Olympiads

## CORE SKILLS

- **</>** Clojure · Java · Kotlin
  Python · Spring Boot · Ktor
- **🛢** Postgres · XTDB · Redis
  AWS S3, SQS, SNS · Kafka
- **🐳** AWS ECS, Lambdas · Kubernetes
  Docker · Tilt · Helm · Grafana
  Prometheus · Loki · Tempo
- **▲** Agile · GitHub · Jira · OpsGenie

## PROFESSIONAL ACHIEVEMENTS

**Nyaya** — London, UK
*Software Engineer - Clojure* — 2023 – present
- Owned and delivered the main 2024 client release by leading a team of 3 senior engineers
- Managed database migrations to Postgres which increased the system performance by 10X
- Streamlined the development process by building a local Tilt and K8s environment for our microservices
- Improved the code maintainability by re-architecting a major service using Domain Driven Design, halving pull request duration

**Teya** — London, UK
*Software Engineer - Java, Kotlin* — 2020 – 2023
- Built a Banking Service from idea to product, forecast to be Teya's second highest revenue stream
- Enhanced my team's ability to proactively prevent incidents by leading the integration of observability best practices (logging, tracing, and dashboards) into development and deployment processes
- Led my team's operability efforts by automating alerting and owning the on-call rota and runbook
- Spread the adoption of Kotlin to more than 50 Teya engineers by building an open-source skeleton project, still used to bootstrap company-wide projects to date
- Improved the team efficiency by outlining the developer onboarding process and mentoring new joiners
- Introduced transactional support in our Ktor service which reduced data integrity errors by over 50%
- Built a Java-based Financial Auditing system to reduce payment errors using AWS infrastructure
- Enhanced company-wide API standardisation by working with leaders to define API best practices

**Teya** — London, UK
*Data Lead - Python* — 2020 (6 months)
- Architected and built a proof-of-concept Python ML deployment pipeline that allowed payments forecasting and eliminated the company's liquidity issues
- Spearheaded a multi-million investment effort into a fraud detection company by analysing and operationalising their state-of-the-art machine learning algorithms

**Cambridge Consultants** — Cambridge, UK
*Senior Electronics Engineer - Python, Verilog* — 2017 – 2020
- Secured a multimillion-pound Internet of Things consulting project by leading a team of 9 engineers
- Developed state-of-the-art mathematical models that led to the discovery of unprecedented spatial sensing technology
- Designed, prototyped, programmed, and ran user tests for novel IoT devices using Python

## ISSUED PATENTS

US10691208B2 · WO2020156719A1 · WO2020192955A1 – ask me about them!

*nationality: Romanian, British - ESTA eligible*