

ALGOTEQUE, a company founded in 2011, has successfully delivered over 300 projects in software development, underscoring our commitment to providing top-tier IT services across the EU, US, and UK. Our team of over 200 professionals brings together expertise in software engineering, computer science, and business analysis, enabling a comprehensive approach to IT project delivery and management.

We have extensive, cross-sector international experience in building software development teams for the banking & finance, insurance, government, travel, e-commerce, health, telecom, energy, and corporate sectors. Our clients include Orange, mBank (Commerzbank), BNP Paribas, WHO, KLM Airlines / Airtrade, PZU, PGE, Roche, Raiffeisen Bank, UBS Bank, major players on the Insurance market in the UK and the US and others.

Our experience includes developing high-volume, high-performance, cloud based secure applications for the UK insurance industry. We have provided a range of software engineering services focusing on application operations, adding new features, improving system security, scalability, user experience, and operational efficiency.

For one of our UK based insurance clients, our team worked on multiple projects involving backend development, frontend application design, data streaming, system integrations, and architecture improvements. We have collaborated closely with the client's internal teams in our managed teams augmentation model to develop solutions that improve their offerings for small businesses and insurance brokers. We have been in cooperation for 6+ years so far.

Scope of Work:

- **External Agent Portal:** We developed and continuously improved a web application for insurance agents, enhancing its functionality to support registration, authentication, quote tracking, and policy management. Our team focused on ensuring the system's scalability and flexibility, integrating multiple partners with minimal technical overhead. This platform now serves over 5,000 agents and supports over 22,000 quotes and 3,000 policies in its first year.
- **Authorization System for Internal Services and External Partners:** We contributed to a system that enables granular access control and secure communication between the client's internal services and external partners. Utilizing AWS services like Lambda and Amazon Verified Permissions, we introduced a scalable authorization system that secures over a million requests per month, with future plans for substantial growth.

- **Insurance Premium Generation:** As part of a larger effort to modularize the client's system, we worked on improving the generation of insurance premiums by decoupling certain components from a large monolithic application, enabling faster and more flexible development of new features.
- **Lead and Sales Opportunity Management System:** We developed a solution to streamline communication and prioritize tasks for consultants working with high-value clients. By integrating with the Twilio phone system and automating task management based on client data, we improved consultant efficiency and client engagement.
- **Online Insurance Policy Calculator:** We built a flexible platform for calculating insurance quotes for small businesses. This tool offers real-time, dynamic pricing across multiple insurers, improving the speed and accuracy of quotes.
- **Developer Tools and CI/CD Improvements:** Our team also worked on optimizing the client's development tools and pipeline, reducing deployment time from over three hours to approximately one hour. We improved observability and testing to ensure faster and more reliable delivery of new features.

Achievements:

- **Scalable and Secure Systems:** Through a combination of best-in-class security practices, cloud technologies, and custom-built solutions, we enhanced the client's ability to handle increased user load and integrate seamlessly with partners, while maintaining high security standards in a fintech environment.
- **Improved Customer Experience:** Our work on the External Agent Portal and the Lead Management System has led to significant improvements in user experience, providing clients and partners with easy-to-use tools that enhance productivity and customer satisfaction.
- **Increased Efficiency and Flexibility:** By transitioning from a monolithic architecture to a modular, microservices-based approach, we have helped reduce technical debt, allowing for faster feature development and better performance. The new system architecture enables rapid changes, faster product rollouts, and improved scalability.
- **Optimized Development Process:** Our work in streamlining the client's deployment pipeline and introducing modern development practices has allowed their engineering teams to ship code faster and more safely, reducing development cycle times and enabling quicker time-to-market.

- **Optimized Software Engineering Costs:** We helped reduce their software engineering costs through multiple factors: delivering services from Poland where resource costs are substantially lower, maintaining extremely low attrition rates that minimize and protect learning curve investments in human capital, ensuring high productivity and quality, and optimizing their cloud-related costs through our AWS expertise (our AWS experts are regular speakers at AWS re:Invent conferences in the US).

By addressing key challenges in system security, scalability, and efficiency, our collaboration with this client has resulted in the development of a suite of powerful, flexible tools that enhance their offerings and provide a significant competitive edge in the insurance market. The improvements have led to better performance, reduced operational costs, and an improved customer experience, positioning our client for long-term success and growth.

We pride ourselves on our expertise in software development team augmentation services, low resource attrition rates, long-term client relationships and lower TCO of teams and solutions we build. We are eager to bring our capabilities to other UK clients.

Our team has extensive knowledge of various programming languages, frameworks, and tools including but not limited to .NET, C#, C, C++, JavaScript, TypeScript, React, React Native, Angular, Node.js, Ruby on Rails, Python, GraphQL, Azure, AWS, DevOps, and SecOps.

Looking forward to further discussions,

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