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B2B SaaS Platform Build for a Series A Startup

A San Francisco-based Series A startup needed to rebuild their MVP — a B2B workflow automation tool — into a scalable, multi-tenant SaaS platform ahead of an enterprise sales push. The founding team had no senior engineering capacity to spare. Algebrix designed and built the platform from architecture to production in 16 weeks.

CLIENT PROFILE	ENGAGEMENT VALUE	DURATION	DECISION MAKER
SaaS Startup · Series A · San Francisco	**USD $48,000**	**16 weeks**	**CEO & CTO**

THE PROBLEM

The company had validated their idea with a single-tenant MVP. Following their Series A, four enterprise prospects were ready to sign — but all required multi-tenancy, SSO, RBAC, audit logging, and a 99.9% uptime SLA that the existing codebase could not support. The founding engineers were consumed by customer success and sales engineering, leaving no internal capacity for a full platform rebuild. They needed a partner to own the technical delivery completely.

OUR APPROACH

1 **Architecture design & technical specification**
Designed a multi-tenant architecture on AWS using tenant isolation at the database layer (schema-per-tenant PostgreSQL), a microservices backend in Node.js, and a React frontend. Produced a complete technical specification reviewed and approved by the CTO before any code was written.

2 **Core platform development**
Built the multi-tenant data layer, tenant onboarding and management system, RBAC engine with custom permission sets, full audit log with tamper-evident storage, and SSO integration supporting Okta, Azure AD, and Google Workspace via SAML and OIDC.

3 **Infrastructure & reliability engineering**
Built the AWS infrastructure using ECS for containerised workloads, RDS Multi-AZ for database HA, CloudFront for global delivery, and a full CI/CD pipeline with automated testing achieving 85% code coverage. Load tested to 10x projected launch traffic.

4 **Enterprise client onboarding**
Delivered the platform into production and supported the onboarding of all four enterprise clients simultaneously, including custom SSO configuration for each client's identity provider and tenant-specific data migration from the legacy MVP.

OUTCOMES

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Enterprise contracts signed and onboarded on platform launch day

16 wks
From architecture kick-off to all enterprise clients live in production

99.97%
Uptime in the first 6 months post-launch across all tenants

TECHNOLOGIES USED

React · Node.js · PostgreSQL · AWS ECS · AWS RDS Multi-AZ · CloudFront · Okta / Azure AD / Google SSO · SAML / OIDC · GitHub Actions CI/CD

> *"Algebrix completely owned the technical rebuild while we focused on closing enterprise deals. They delivered exactly what they said they would, exactly when they said they would. The platform handled enterprise requirements from day one and we haven't had a significant incident since launch."*

— CEO, B2B SaaS Startup · San Francisco, USA (Illustrative)

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All case studies above are illustrative engagement examples. Client names and identifying details are not disclosed.