

Job Description – Backend Engineer

Location: Bangalore

Employment Type: Full-time

Experience: 8–10 years

About Us

Avo Automation is an industry-leading test automation platform dedicated to revolutionizing how businesses approach software quality.

Emerging from stealth mode in late 2020, we have focused on transforming the way organizations think about software quality.

Our AI-driven, no-code platform delivers continuous quality assurance across key business processes and supports over 200 technologies.

With efficient test data management and machine learning capabilities, our platform enables teams to enhance quality, conduct efficient data validation, and reduce time to market.

About the Role

We are seeking a skilled **Backend Engineer** to design, build, and optimize the core services that power our SaaS platform. The ideal candidate has strong expertise in Node.js and Python, database performance tuning, and cloud-native deployments on Azure. You will work closely with frontend, DevOps, and product teams to deliver secure, scalable, and reliable backend systems.

Key Responsibilities

Core Backend Development

- Build scalable APIs using **Node.js** (REST & GraphQL).
- Develop microservices and user-deployable logic in **Python**, including AI/ML service integrations.
- Implement robust API security with OAuth2, JWT, and role-based access control.

Database Expertise

- Design efficient schemas, indexes, and queries in **MongoDB**.
- Ensure consistency, transactions, and scalability in distributed database setups (including sharding).
- Apply caching strategies (Redis, in-memory stores) for high-performance applications.

Cloud & DevOps (Azure)

- Deploy and manage services on **Azure App Services, AKS (Kubernetes), Functions, Service Bus, and Event Grid**.
- Work with CI/CD pipelines (Azure DevOps/GitHub Actions) to automate deployments.

- Manage secrets, configurations, and environments with **Azure Key Vault** and Config Servers.

Architecture & Scalability

- Design and implement **event-driven** and **microservices architectures** using queues and async processing.
- Build **multi-tenant SaaS backends** with isolation, rate limiting, and usage metering.
- Apply distributed systems knowledge to balance latency, reliability, and fault tolerance.

Testing & Reliability

- Write and maintain unit and integration tests for backend services.
- Implement observability practices: structured logging, metrics, tracing (Azure Monitor, ELK, OpenTelemetry).
- Debug and profile backend performance to ensure system stability.

Collaboration & Agile Practices

- Work cross-functionally with frontend and DevOps teams for seamless feature delivery.
- Contribute to CI/CD workflows and iterative delivery.
- Participate in code reviews, architectural discussions, and Agile ceremonies.

Qualifications

- Bachelor's degree in Computer Science, Engineering, or equivalent practical experience.
- 8–10 years of backend development experience in SaaS or large-scale applications.
- Proficiency in **Node.js** (REST & GraphQL) and strong working knowledge of **Python**.
- Strong expertise in **MongoDB** and caching systems (Redis).
- Experience deploying workloads on **Azure** (App Services, AKS, Functions).
- Familiarity with **CI/CD, Docker, and Kubernetes**.
- Strong testing, debugging, and observability skills.
- Good understanding of **distributed systems, microservices, and event-driven architecture**.
- Excellent problem-solving and collaboration skills.

What We Offer

- Opportunity to build and scale backend systems for a fast-growing SaaS platform.
- Exposure to modern architectures (microservices, event-driven systems, AI/ML integrations).
- Collaborative and growth-oriented work environment.

- Competitive compensation and benefits.