

IBM - Entry Level Backend Developer

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Professional Summary

Results-driven software developer with a strong foundation in backend development, cloud technologies, and systems engineering. Combining a **Bachelor of Science in Software Engineering** with recent certifications in **Full Stack Web Development** and **QA Software Testing**, plus 18+ years of hands-on experience in complex systems troubleshooting and automation. Proficient in **Java, JavaScript, SQL**, and **Linux/Unix** environments, with practical knowledge of **API development, client-server architectures**, and **Agile methodologies**. Eager to contribute to IBM's mission of building innovative, large-scale backend systems that deliver global impact while continuing to grow expertise in enterprise-level software development.

Technical Skills

| Category | Skills |
|-----------------------|--|
| Programming Languages | Java, JavaScript (Node.js), SQL, Bash/Shell Scripting, C++ (basic), HTML5, CSS3 |
| Backend Development | RESTful API Design & Development, Client-Server Architecture, Database Management (PostgreSQL, MySQL), Express.js, Node.js |
| Cloud & DevOps | AWS (EC2, S3, VPC, IAM, CloudFormation), CI/CD (GitHub Actions, Jenkins concepts), Docker, Linux/Unix Administration |
| Development Practices | Agile/Scrum, Git/GitHub Version Control, Test-Driven Development, Software Testing, Code Review |
| Systems & Automation | PLC Programming, Industrial Control Systems, System Troubleshooting, Root Cause Analysis, Process Automation |

Professional Experience

Software Developer (Transitioning from Industrial Automation)

Self-Directed Projects & Bootcamp Work | 2023 – Present

Completed intensive training in modern software development while building practical backend applications and cloud-based systems. Demonstrated ability to quickly learn new technologies and apply them to real-world problems.

- Designed and developed **RESTful APIs** using **Node.js** and **Express.js**, implementing proper routing, middleware, authentication, and error handling for full-stack web applications.
- Built database-driven applications using **SQL** (PostgreSQL, MySQL), creating normalized schemas, writing complex queries, and implementing CRUD operations with proper data validation.
- Deployed applications to **AWS cloud infrastructure** (EC2, S3), configuring secure networking (VPC), managing IAM permissions, and implementing basic **CI/CD pipelines** using **GitHub Actions**.

- Practiced **Agile development methodologies** through collaborative bootcamp projects, participating in sprint planning, daily standups, code reviews, and iterative development cycles.
- Developed comprehensive test suites for backend services, applying **QA testing principles** including unit testing, integration testing, and API endpoint validation.

Senior Maintenance Engineer / Automation Specialist

Various Manufacturing Companies, USA | 2007 – 2023

Applied systematic problem-solving and technical expertise to maintain mission-critical industrial systems, developing strong foundations in logical thinking, troubleshooting, and automated system design—skills directly transferable to backend software development.

- Programmed and maintained **PLC (Programmable Logic Controller) systems** using structured programming logic, demonstrating proficiency in algorithmic thinking and control flow design.
 - Performed **complex systems troubleshooting** and **root cause analysis** on electrical, mechanical, and control systems, quickly identifying and resolving issues to minimize downtime—analogueous to debugging backend services.
 - Managed **critical infrastructure** in high-pressure manufacturing environments, ensuring system reliability, monitoring performance metrics, and implementing preventive maintenance protocols.
 - Utilized **Linux-based industrial control systems** and **scripting** for automation tasks, data acquisition, and system monitoring.
 - Collaborated with cross-functional teams including engineers, operators, and management to implement system improvements and optimize production processes.
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Relevant Projects

Full-Stack Task Management Application with RESTful API

- **Description:** Built a complete task management system with user authentication, task CRUD operations, and real-time updates.
- **Technologies:** Node.js, Express.js, PostgreSQL, React, JWT Authentication, AWS EC2.
- **Backend Contributions:**
 - Designed and implemented RESTful API with 15+ endpoints for user management, task operations, and data filtering.
 - Created normalized database schema with proper relationships and indexes for optimal query performance.
 - Implemented secure authentication using JWT tokens and password hashing (bcrypt).
 - Deployed backend to AWS EC2 with automated deployment pipeline using GitHub Actions.

Cloud Infrastructure as Code (IaC) Project

- **Description:** Provisioned and managed AWS cloud resources using Infrastructure as Code principles.
- **Technologies:** AWS CloudFormation, Bash scripting, Linux.
- **Contributions:**
 - Created CloudFormation templates to define VPC, EC2 instances, S3 buckets, and security groups.
 - Developed Bash scripts to automate AWS resource management and monitoring tasks.
 - Implemented bash scripts for server configuration, application deployment, and log management.

Automated Testing Framework for API Endpoints

- **Description:** Developed comprehensive testing suite for backend API validation.

- **Technologies: Postman, SQL, Git, JavaScript.**
 - **Contributions:**
 - Created automated test cases for API endpoints covering positive, negative, and edge case scenarios.
 - Implemented database validation tests to ensure data integrity across CRUD operations.
 - Integrated testing into CI/CD pipeline for continuous quality assurance.
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Education & Certifications

- **QA Software Tester Certificate** – JanBask Training (2025)
 - *Comprehensive training in software testing methodologies, test case development, and quality assurance practices.*
 - **Full Stack Web Development Bootcamp Certificate** – Georgia Institute of Technology (2023)
 - *Intensive program covering backend development (Node.js, Express, SQL), frontend technologies, Git version control, and Agile methodologies.*
 - **Bachelor of Science in Software Engineering** – University of Phoenix (2016)
 - *Foundational computer science education including algorithms, data structures, software design patterns, and system architecture.*
 - **Technical Engineering in Electromechanical** – DRC (Democratic Republic of Congo)
 - *Technical foundation in systems engineering, electrical systems, and automated control.*
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Why IBM?

IBM's commitment to innovation, collaborative culture, and global impact aligns perfectly with my career goals. I am particularly excited about the opportunity to work on large-scale backend systems that serve users worldwide, while learning from IBM's world-class engineering teams. My unique combination of software development skills, systems thinking from industrial automation experience, and proven ability to

quickly master new technologies positions me to contribute meaningfully to IBM's backend development initiatives from day one.