

# Senior Backend Developer

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## PROFESSIONAL SUMMARY

Python & Flask Specialist | API Architecture | Database Design | Scalable Systems

## TECHNICAL SKILLS

### Backend Technologies:

- Python & Flask
- RESTful API Design
- Database Design (SQL/NoSQL)
- Authentication & Security

### Infrastructure & Tools:

- Docker & Containerization
- PostgreSQL & MongoDB
- AWS & Cloud Services
- CI/CD & DevOps

## PROFESSIONAL EXPERIENCE

### Backend Architecture Expertise

Scalable System Design | Current

- Designed and implemented microservices architecture supporting 10k+ concurrent users
- Implemented comprehensive API security with JWT, rate limiting, and input validation
- Optimized database queries reducing response times by 70% through indexing and caching
- Built real-time features using WebSocket connections for live updates
- Containerized applications with Docker and orchestrated with Docker Compose

### Database & Performance

Data Architecture | Current

- Designed normalized database schemas for complex business domains
- Implemented efficient indexing strategies improving query performance by 5x
- Set up Redis caching layer reducing database load by 60%
- Integrated vector databases (Pinecone) for AI-powered semantic search
- Implemented database migrations and version control for schema changes
- RESTful API design with proper status codes and error handling

- Comprehensive API documentation with OpenAPI/Swagger
- Rate limiting and throttling to prevent abuse
- Input validation and sanitization for security
- Versioning strategy for backward compatibility

## KEY PROJECTS

### TalentMatch Backend API

High-performance Flask REST API with AI-powered candidate matching, JWT authentication, and real-time WebSocket connections for live updates.

Technologies: Python Flask, OpenAI API, Pinecone DB, JWT Auth, WebSocket

Metrics: 15k RPM | 99.9% Uptime | 50ms Avg Response

### AI Habit Tracker API

Express.js backend with PostgreSQL, natural language processing, and real-time analytics. Features complex data relationships and AI-powered insights.

Technologies: Node.js, Express, PostgreSQL, OpenAI NLP, Redis Cache

Metrics: 10k Users | 1M+ Records | 25ms Query Time

### Startup Valuation API

Financial calculation engine with AI-powered SWOT analysis, PDF report generation, and complex business logic for accurate startup valuations.

Technologies: Next.js API, AI Analysis, PDF Generation, Financial Logic, Rate Limiting

Metrics: 500+ Calculations | 95% Accuracy | 2s Report Gen

## SPECIALIZATIONS

### Python & Flask

Expert in building scalable Python APIs with Flask, SQLAlchemy, and modern backend patterns. Specialized in AI integration and complex business logic.

### Database Architecture

Proven expertise in database design, optimization, and management across SQL and NoSQL technologies with focus on performance and scalability.

### API Security

Comprehensive security implementation including authentication, authorization, rate limiting, and data protection for production applications.