

Farhad Burjaliyev

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About Me

Backend-focused Computer Science student with practical experience designing, building, and deploying RESTful APIs using Python, FastAPI, and PostgreSQL. Contributed to real-world backend systems during an internship, gaining exposure to production environments and collaborative development. Passionate about backend architecture, database design, and developing scalable, high-performance server-side applications.

Experience

BACK-END PYTHON INTERN, *Sabah.hub*

06/2025 – 10/2025 | Baku

- Developed backend services using Python and FastAPI
- Built and maintained RESTful APIs with proper request validation
- Worked with PostgreSQL for data storage and querying
- Deployed backend application to Microsoft Azure
- Configured environment variables and database connections for production
- Collaborated on internal backend projects

Education

Bachelor of Computer Science, *UFAZ*

2024 – 2028 | Baku

Language

English — C1

Azerbaijani — Native

Russian — Near-native proficiency

Skills

Programming & Backend

- Python
- SQL
- FastAPI (RESTful API development)
- Java

Databases

- PostgreSQL
- Database schema design
- CRUD operations

Cloud & Deployment

- Backend application deployment
- Environment variables & configuration
- AWS (EC2, S3, RDS, deployment)

Projects

JAVA RAYCASTING GAME ENGINE

- Developed a 1993-style first-person pseudo-3D game engine using pure Java, Swing, and Graphics2D

- Implemented manual mathematical raycasting and depth buffering for 3D environment rendering
- Designed a robust object-oriented architecture with interfaces and inheritance for game entities
- Built stateful map elements including interactable doors, lock-and-key logic, and grid systems
- Created simple automated AI logic for NPC entities to support wandering and chasing behaviors

UFAZ GPA Management System, *Full-Stack Web Application for Academic Performance Tracking*

- Designed and developed a full-stack GPA management system for UFAZ.
- Built a secure backend using FastAPI and PostgreSQL.
- Created a modern frontend with Next.js and Tailwind CSS.
- Implemented user authentication, admin dashboards, and subscription management.
- Enabled Excel data import and automated email notifications.
- Collaborated in a team, following best practices in code quality, testing, and Docker-based deployment.
- Deployed and managed the application on AWS using services such as EC2, S3.