

KIARASH BASHOKIAN

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Personal Summary

Backend Developer | Scalable & Secure Solutions

Innovative Backend Developer with a strong foundation in **IT infrastructure and network systems**, bringing a unique blend of **software engineering** and **systems administration** expertise. Skilled at designing and deploying **scalable, high-performance applications** using both **monolithic** and **hybrid architectures**.

Proficient in **Python, JavaScript, and C++**, with hands-on experience in frameworks such as **Django, FastAPI, and Flask** to deliver secure, efficient, and maintainable solutions. Experienced in building **SSR/SPA applications**, managing **SQL and NoSQL databases** (PostgreSQL, MySQL, MongoDB, Redis), and implementing **CI/CD pipelines** to accelerate deployment.

Strong background in **Linux systems administration and network infrastructure management**, enabling optimization of deployment environments, automation, and system security. Recognized for **problem-solving, performance tuning, and continuous learning**, with a focus on driving innovation in backend and full-stack development.

Skills

Backend & APIs:

Python, JavaScript/TypeScript, Java, C/C++, Django, Django REST Framework (DRF), FastAPI, Flask, Celery, REST APIs, php

Databases & Caching:

PostgreSQL, MySQL, SQLite, Oracle Database, MongoDB, Redis, Memcached, Django ORM

Frontend & UI:

React.js, HTML5, CSS3, Tailwind CSS, WebKit, bootstrap

DevOps, Tools & Testing:

Git, Docker, pytest, unittest, Postman API, VirtualBox, VMware, Nginx, Apache, cPanel, Mail Servers

Systems & Infrastructure:

Linux Administration (Ubuntu, Arch Linux, Debian), Linux Server Management, Bash, Nginx, Apache, System Optimization, Rag/Graphrag

Networking & IT:

Network Infrastructure Management, CCNA, Network+, Cisco DNA Center, Firewall Administration, vCenter, Server Virtualization

Experience

Programmer Assistant | York University – UIT LTS Team | Toronto, ON (Keele Campus – Dr. Philip Building) | 08/2025 – Present

- Architected scalable AI microservices for document parsing, embeddings, and knowledge-base management, supporting modular backend deployment.
- Developed and tuned advanced RAG workflows using vector databases, RAGFlow, and GraphRAG fallback logic to improve answer quality and reliability.
- Built CI/CD pipelines and unit/integration tests from scratch, while maintaining and modernizing Moodle plugins by migrating legacy components and fixing critical bugs.

Network Service Assistant | York University – UIT Network Team | Toronto, ON (Keele Campus – Steacie Building) | 05/2025 – 08/2025

- Engineered a campus network monitoring tool using Cisco DNA Center APIs to ingest, analyze, and visualize real-time infrastructure health and traffic data.
- Automated administrative workflows for Rogers billing audits and service processing, reducing manual data entry and improving operational accuracy.
- Extracted and processed DNAC datasets for network research and trend analysis, while completing server room surveys and software audits to improve documentation and maintenance planning.

Web Developer | Gh Light | Tehran, Iran | 03/2024 – 05/2024

- Delivered a full-stack website covering backend, frontend, database, and SEO within a 2-month timeline.

- Improved performance and maintainability through code optimization and more efficient database design.

IT Expert | Arya Heavy Machinery | Tehran, Iran | 11/2023 – 02/2024

- Provided enterprise IT support across servers, firewalls, and network infrastructure for 200+ employees.
- Installed, configured, and maintained HP servers, vCenter, Cisco devices, and firewall solutions.
- Monitored and troubleshot critical systems, including SAP (Hamkaran System), to support daily business operations.

Qt Developer Trainee | Arad | Tehran, Iran | 09/2022 – 12/2022

- Strengthened C++ object-oriented design and memory-management skills while developing applications with the Qt framework at Arad.
- Designed, tested, and debugged GUI components while gaining hands-on experience with the software development lifecycle.

Projects

AI Full stack Platform (FastAPI, React, Docker) – GitHub: <https://github.com/Ghosts6/ai-platform>

- Engineered a scalable backend platform for AI services using FastAPI and Docker, supporting modular microservice architecture.
- Implemented secure, RESTful API endpoints to orchestrate multiple AI workflows and services.
- Designed infrastructure for extensibility and efficient integration of new AI components.

Weather & News Aggregation Platform (React, Django) – GitHub: https://github.com/Ghosts6/weather_news

- Developed a full-stack web application using React, TypeScript, Tailwind CSS, and Django to aggregate and display real-time weather and news data.
- Integrated external APIs for dynamic data retrieval, implementing backend services for data processing and efficient client delivery.
- Designed responsive UI components and structured backend architecture to ensure scalability, maintainability, and seamless user experience.

Network Analytics & Client Monitoring System (Cisco DNAC) – GitHub: https://github.com/Ghosts6/client_count

- Developed a real-time network client tracking system using Cisco DNA Center APIs for data extraction and reporting.
- Automated client monitoring workflows, improving visibility into network usage and reducing manual tracking efforts.

Websites, Portfolios, Profiles

LinkedIn – <https://www.linkedin.com/in/kiarashbashokian/>

Portfolio Website – <https://www.kiarashbashokian.com/>

GitHub – <https://github.com/Ghosts6>

Live Projects – <https://ghosts6.github.io/#/projects>

Education

- York University – Toronto, Ontario, Canada Bachelor of Computer Science: Software (Expected 02/2025)

Languages

- English – Professional Proficiency
- Persian – Professional Proficiency