

Ilia Goginashvili

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PROFESSIONAL SUMMARY

Backend-focused Software Engineering Trainee with hands-on experience building secure, production-oriented backend systems using TypeScript, Node.js, and Python. Strong interest in clean architecture, authentication and authorization systems, and API design. Comfortable working in collaborative teams, participating in code reviews, and learning through real-world projects and feedback.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (daily use), Python (strong), Rust (foundational)

Backend: Node.js, NestJS, Express.js, Fastify, Django

Databases: PostgreSQL, Prisma ORM, Redis, MongoDB

Frontend: Next.js, React, Tailwind CSS

DevOps & Infrastructure: Docker, GitHub Actions, Nginx, CI/CD

Security: JWT & HttpOnly cookies, RBAC, TOTP / 2FA, Argon2, AES-256-GCM

API Design: REST APIs, OpenAPI 3.0, pagination, caching, rate limiting

Engineering Practices: Clean Architecture, SOLID principles, design patterns, Git, testing

Collaboration: Code reviews, sprint planning, task estimation

PROFESSIONAL EXPERIENCE

Software Engineer Trainee (Node.js Backend)

Andersen · Tbilisi, Georgia

2025 – Present (Bench)

- Contributed to Node.js backend development using TypeScript and NestJS in an educational software project
- Participated in code reviews and architectural discussions with focus on clean architecture and maintainability
- Acted as interim technical point of contact after team transition, supporting task estimation, team coordination, and technical discussions
- Applied SOLID principles and backend design patterns in production-style codebases

- Gained experience working in a structured team environment with agile workflows
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PROJECTS

Aegis2FA — Two-Factor Authentication Service

Tech Stack: Node.js, Express.js, TypeScript, PostgreSQL, Redis, Prisma ORM, Docker

- Built a self-hosted 2FA authentication service to deeply understand modern authentication systems
 - Implemented TOTP-based authentication, JWT with refresh token rotation, and Argon2 password hashing
 - Applied clean architecture principles and implemented role-based access control
 - Developed automated test suite with 80%+ coverage (unit, integration, E2E)
 - Created comprehensive documentation using MkDocs and OpenAPI specifications
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ApiFlow — API Documentation Generator

Tech Stack: Python, Jinja2, OpenAPI 3.0, Static Site Generation

- Built a static site generator that converts OpenAPI specifications into searchable HTML documentation
 - Designed modular and customizable themes using Jinja2 templates
 - Implemented offline-first documentation workflow with versioning and changelogs
 - Used the tool to document personal and demo backend projects
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DevFlow — CLI Workflow Automation Tool

Tech Stack: Rust

- Developed a command-line tool to automate Jira and Git-based development workflows
 - Focused on memory safety and reliability using Rust
 - Automated repetitive task-management operations to improve developer productivity
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Password Manager — Secure CLI Utility

Tech Stack: Rust, Argon2, AES-256-GCM

- Built a secure CLI password manager implementing modern cryptography standards
 - Used Argon2 for key derivation and AES-256-GCM for encryption
 - Designed zero-knowledge architecture where the master password is never stored
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Task Management API — REST API Demo

Tech Stack: Node.js, Express, JavaScript, REST, OpenAPI

- Built a REST API to demonstrate SOLID principles, design patterns, and JavaScript fundamentals
 - Implemented clean architecture and modular project structure
 - Generated OpenAPI documentation and published static docs using ApiFlow
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World Simulation — Artificial Life Engine

Tech Stack: Python, NumPy, Streamlit, Pandas, Rich CLI

- Built an artificial life simulation with evolving agents and configurable environments
 - Designed modular architecture supporting CLI and web-based visualization
 - Implemented data analysis and visualization dashboards for simulation results
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TECHNICAL WRITING & LEARNING

- Write technical articles on authentication patterns, JWT handling, TOTP systems, and backend security
 - Document learning outcomes related to password hashing, rate limiting, and backend architecture
 - Maintain a portfolio focused on correctness, documentation, and learning-by-building
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EDUCATION

Bachelor's Degree (Expected 2027)

BTU · Tbilisi, Georgia

Relevant Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, Object-Oriented Programming

ADDITIONAL INFORMATION

Languages: English (Proficient), Georgian (Native)

Open Source: Active contributor

Career Focus: Junior / Trainee Backend Engineering roles with focus on backend systems, security, and long-term growth