

# Knarik Harutyunyan

## Full Stack Developer | AI & Cloud

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### PROFILE

Full Stack Developer with experience building and maintaining web applications using JavaScript, TypeScript, React, Node.js, Python, and FastAPI, including REST APIs, PostgreSQL-based data models, and third-party integrations. Hands-on with AWS, Docker, CI/CD, and integrating LLMs and AI agents into application workflows. Experienced in building AI-powered features and working in fast-moving environments. Comfortable working in English within an international engineering team.

### TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, C#, SQL  
**Backend & APIs:** FastAPI, Django, Node.js, ASP.NET Core, REST APIs  
**Databases:** PostgreSQL, SQLite  
**AI / LLM:** LLM integration, AI agents  
**Cloud & DevOps:** AWS (Lambda, EC2, Elastic Beanstalk, CloudWatch), Docker, CI/CD  
**Frontend:** React, Tailwind CSS

### WORK EXPERIENCE

#### Backend Developer, Node.js / TypeScript November 2025 – Present

[STA Soft](#) · Remote

- Develop and maintain production backend services using Node.js and TypeScript, refactoring and migrating business logic from Python.
- Implement transactional workflows and database operations with Knex and Objection.js against PostgreSQL.
- Integrate LLM-based AI agents into backend services, designing tool-based interactions for application workflows.
- Work with AWS Lambda, EC2, Elastic Beanstalk, CloudWatch, and Docker, and support CI/CD via GitHub Actions.
- Troubleshoot backend issues and participate in code reviews and Scrum development.
- Develop and maintain frontend functionality using React and TypeScript as part of full-stack feature development.

#### Backend Developer, Python December 2024 – March 2025

[Makichyan Consulting LLC](#) · Yerevan

- Designed and implemented REST APIs using Python, Django, and FastAPI, including relational data models and transactional workflows.
- Developed and optimized complex PostgreSQL/SQL queries and integrated internal and third-party services.
- Refactored backend code to improve maintainability and debugged issues for production features.

#### SAS Analyst, Clinical Data June 2025 – August 2025

[STATECS LLC](#) · Yerevan

- Developed SDTM and ADaM datasets (ADSL, SV, SE) following CDISC standards, including validation and regulatory checks.
- Generated statistical summaries and patient-level outputs while maintaining data quality and consistency.

### PROJECTS

#### AI-Powered Fleet Maintenance API

- Built a scalable REST API (FastAPI, PostgreSQL) for a logistics company to manage trucks, mechanics, incidents, and repair workflows, with JWT auth, CRUD, pagination, search, and soft deletion.
- Integrated an LLM via Groq API to recommend the best mechanic per incident, with confidence scores and retry logic for invalid output, rate limits, and API failures.
- Implemented dynamic mechanic performance scoring and Cloudinary-based photo storage using modular routers, services, and schemas.

Technologies: Python, FastAPI, PostgreSQL, SQLAlchemy, JWT, Groq API, LLM, Cloudinary, Git, GitHub

#### Lutea, Hack Nation AI Hackathon ([lutea.administration.ae](#))

- Contributed to Lutea, an AI-focused product built in a time-constrained hackathon, combining software engineering and AI to deliver a working prototype.

### EDUCATION

#### Bachelor of Science in Information Technologies 2024 – Present

[National Polytechnic University of Armenia](#)

#### High School Diploma with Honor, Information Technologies 2020 – 2024

[NPUA College](#)

### LANGUAGES & ADDITIONAL

Armenian: Native | Russian: Fluent | English: Professional Working Proficiency  
AI Development: Currently working toward Claude certification.