# Lana Gasparyan

lana5545@gmail.com | New York, NY | +1-(917) 943-2490

 https://github.com/lanagasparyan
 https://www.linkedin.com/in/lanagasparyan
 UpWork

## Summary

Full-stack Software Engineer with **3+ years** of experience building scalable web applications and cloud infrastructure. Proven expertise in designing RESTful APIs, implementing secure authentication systems, and deploying containerized applications to AWS. Strong foundation in machine learning and AI integration, with hands-on experience leveraging LLMs for innovative solutions. AWS Certified Cloud Practitioner with demonstrated ability to deliver end-to-end software solutions from concept to production.

## Education

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|---|---|
| **Bachelor of Science** in Software Engineering, Western Governors University, Millcreek, UT | Sep 2025 |
| **Front End Web Developer NanoDegree**, Udacity | 2020 |
| **MicroBachelors of Computer Science Fundamentals**, EdX / New York University | 2020 |

## Skills

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|---|---|
| **Languages** | Python (Adept), Java, JavaScript, HTML/CSS, SQL, C++, Bash |
| **Frameworks** | Spring Boot, Flask, React, Node.js, Django, Jekyll |
| **Tools & Cloud** | AWS (S3, CloudFront, Route 53), PostgreSQL, Git, Docker, JWT, VS Code |

## Projects

**Skill Quest: AI Learning Planner** *(Java, Spring Boot, React, PostgreSQL, JWT, LLM API)*
- Designed and deployed full-stack application providing AI-generated learning roadmaps for self-directed education
- Built secure **RESTful API** with Spring Boot featuring **JWT authentication** and PostgreSQL database
- Integrated LLM API for dynamic curricula generation; created responsive React UI with progress tracking

**BinaryDecimal.com - Multi-Purpose Toolkit** *(React, JavaScript, Vite, Tailwind CSS)*
- Built comprehensive web toolkit with **17+ utilities** (calculators, converters, productivity tools) serving **40K+ users annually**
- Implemented complex algorithms for financial calculations, scientific conversions, and health metrics (BMI, A1C)
- Achieved **100% client-side processing** for privacy and speed; deployed as progressive web app

**MemoDiction.com** *(Jekyll, Python, OpenAI API, GitHub Actions)*
- Developed dictionary website with AI-generated mnemonics serving **25K+ users annually** for vocabulary retention
- Leveraged OpenAI API with prompt engineering to automatically generate learning aids and etymology insights

**Freelance Development Projects** *(Python, Data Processing, File Conversion)*
- Developed Python scripts for **NetCDF scientific data** merging and analysis for research clients
- Created automated Markdown to ENEX converter supporting complex formatting and metadata preservation

**Yelp Fake Review Detector** *(Python, Scikit-learn, NLP)*
- Built ML model detecting fake reviews with **89% accuracy** using feature engineering and NLP
- Achieved **precision: 0.84, recall: 0.94, F1: 0.89** through systematic model optimization

## Certifications

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|---|---|
| **CompTIA Project+ certification** | 2025 |
| **AWS Certified Cloud Practitioner** | 2023 |
| **ITIL® Foundation Certificate in IT Service Management** | 2023 |
| **CompTIA A+ Core 1** | 2022 |
| **Google IT Support Professional Certificate**, Coursera / Google | 2021 |
| **Complete Python Bootcamp**, Udemy | 2019 |

*Authorised to work in the United States as a Permanent Resident*