

# GABRIELA GEORGIEVA

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## EDUCATION

**Cornell Tech (Cornell University)**, New York, NY May 2024  
*Master of Engineering in Computer Science* | Merit Scholarship | GPA: 4.1/4.3

**Relevant Coursework:** Applied Machine Learning, Optimization Methods, Machine Learning Engineering

**American University in Bulgaria**, Blagoevgrad, Bulgaria May 2023  
*Bachelor of Arts in Computer Science, Minor in Mathematics* | Outstanding Achievements in CS Award | GPA: 3.94/4.00

**Relevant Coursework:** Operating Systems, Computer Networks, Data Structures & Algorithms, Database Systems, Computer Architecture, Software Engineering, Advanced Linear Algebra, Mathematical Statistics, Numerical Analysis

## TECHNICAL SKILLS

**Coding Language:** Java, Python, C++, Groovy, CSS, HTML, JavaScript, SQL  
**Frameworks & Tools:** Spring, Angular, Jenkins, Docker, Git, PyTorch, Scikit-Learn

## EXPERIENCE

**VMware, Member of Technical Staff, Level 2**, Sofia, Bulgaria Jan 2022 - Aug 2023  
*DevOps Team*

- Contributed to the creation of robust CI/CD systems for Aria Automation services using Java, Groovy, Bash, Jenkins & VMware's CodeStream, optimizing development workflows and deployment processes.
- Designed and developed custom productivity-enhancing tools benefiting over 1000 members of the Sofia R&D teams such as scripts that efficiently compare virtual machine file systems, streamlining file integrity checks and optimizing resource allocation.
- Automated the security scanning of libraries across 32 services, ensuring software integrity and reducing vulnerability risks.

*Automation Testing Team*

- Automated testing for GCP and AWS integration in Aria Automation, expanding coverage and efficiency.
- Led the initiative of migrating from Selenium's promise manager to async/await.

**VMware, Internship**, Sofia, Bulgaria July 2021- Jan 2022

- Designed and implemented a Java tool that uses Aho-Corasick algorithm for efficient search of inclusive terminology and credentials/secrets within code bases.
- Successfully integrated the tool into the code review pipeline of 32 services, enhancing the company's awareness of and compliance with inclusive language and data security best practices.
- Developed a full-stack web application using Spring, Angular, Docker and Jenkins

## PROJECTS

**Mini-Pytorch**, (Python) | [GitHub](#) Fall 2023

Pure Python re-implementation of the Torch API as part of Machine Learning Engineering course at Cornell Tech

- Covers ML Programming Foundations, Autodifferentiation, Tensors, Parallel Programming in NUMBA and GPU programming in CUDA, Foundational Deep Learning

**Searchable Encryption Library**, (Java) | [GitHub](#) Spring 2023

Provided encryption/decryption capabilities and efficient search through encrypted data.

- Implemented AES algorithm for encrypting/decrypting data.
- Designed an inverted index system, incorporating the Okapi BM25 algorithm for rapid and precise information retrieval in encrypted datasets.
- Developed a user-friendly feature enabling fuzzy search operations via ngrams, enhancing search flexibility.

## LEADERSHIP/ EXTRACURRICULAR ACTIVITIES

**Third Place, HackAUBG 4.0 hackathon** | [Article](#) | [GitHub](#) April 2022

- Developed a notification based mobile application that keeps track of users' spendings and recommends improvements.

**The Hub, AUBG, Event Logistic Coordinator**, Blagoevgrad, Bulgaria Sep 2020 - Jan 2022

- Organized events such as programming hackathons (HackAUBG 3.0) and CS workshops (HubConf).
- Facilitated the communication between participants, organizers, and mentors.

## CERTIFICATION

[VMware Talent Boost Academy](#) June 2021