GABRIELA GEORGIEVA

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EDUCATION

Cornell Tech (Cornell University), New York, NY   May 2024
Master of Engineering in Computer Science | Merit Scholarship

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

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.

Numerical Methods, (Python) | GitHub   December 2022
CLI tool for visualizing derivatives and comparing integration techniques.
- Implemented numerical differentiation methods (Forward, Centered, Backward) for precise derivative calculations.
- Provided comparison between numerical integration techniques such as Simpsons and Trapezoidal.

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