

GEORGI ZAHARIEV

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EDUCATION

George Mason University, VA, USA

Bachelor of Science in Computer Science (B.Sc.)

August 2022 - May 2026

GPA: 4.0/4.0 - Summa cum laude

Relevant Coursework: Data Mining, Data Structures, Database Concepts, Analysis of Algorithms, Operating Systems, Computer Communications and Networking, Computer System Architecture, Secure Systems and Programming

WORK EXPERIENCE

Undergraduate Teaching Assistant

Volgenau School of Engineering, George Mason University, VA, USA

August 2023 - May 2026

- Teaching Assistant for Database Concepts (senior-level), Data Structures, OOP, and Introduction to Computer Programming.
- Helped 40 - 50 students master complex concepts, leading to grade improvements of 20% or more.
- Supported 900+ students by grading assignments, delivering feedback, and managing the Piazza Q&A platform

R&D Software Engineer Intern

eDynamix, Bulgaria

June 2025 - August 2025

- Developed Python pipelines for vehicle image background removal and video noise reduction using open-source AI tools.
- Built and optimized complex prompt-based car image validation workflows for 100K+ images daily, achieving 95%+ accuracy
- Researched and evaluated open-source AI models and solutions for potential integration into in-house systems

Data Analyst Intern

Sentara Healthcare, VA, USA

May 2024 - June 2024

- Optimized team workflows by analyzing productivity metrics, eliminating delays, and boosting efficiency by 30%.
- Resolved Wave PM platform issues, providing support that improved adoption and reduced downtime
- Delivered actionable insights and visualizations to 10+ managers, driving process improvement decisions
- Implemented automation tools that improved reporting accuracy and reduced manual effort by 90%

LEADERSHIP & ACHIEVEMENTS

NCAA Division I Men's Volleyball Captain - First Team All-Conference, Conference and National Player of the Week

Academic Honors: Distinguished Academic Achievement, Outstanding Teaching Assistant, OrthoVirginia Student Achiever

Mathematics Competitions: Recognized in regional and national Mathematics competitions

PERSONAL PROJECTS

Hackathon Winner - Agentic AI Property Valuation

Tech Stack: Python, React, TypeScript, LLM Agents, Computer Vision, REST APIs, PDF/XML Parsing

March 2026 - May 2026

- Reduced valuation turnaround from weeks to under 1 hour by consolidating fragmented property data into one AI workflow
- Improved valuation objectivity by grounding decisions in reports, comparables, property imagery, and market data
- Enabled audit-ready analyst review with anomaly detection, floor/ceiling estimates, traceable reasoning, and logs

Multimodal AI Disaster Response Dashboard

Tech Stack: Python, FastAPI, React, TypeScript, REST APIs, Geospatial Dashboards, Real-Time Data Feeds

March 2026 - April 2026

- Helped CNA anticipate Tampa Bay hurricane-related fuel, grocery, and route disruptions from multi-source signals
- Converted traffic, weather, camera, facility, and bottleneck data into explainable alerts for faster disaster-response decisions
- Delivered a real-time-capable MVP using staged live feeds, proving operational value without costly production APIs

SKILLS

Languages: Java, Python, TypeScript, JavaScript, Go, SQL, C

Frameworks: React, Next.js, FastAPI, Node.js, NumPy, Pandas, scikit-learn, pytest

AI / ML: Prompt Engineering, Agentic Workflows, NLP, OpenAI / Claude API, Hugging Face, Whisper, Computer Vision, Data Mining

DevOps / Tools: Git, GitHub, GitLab, Docker, Docker Compose, CI/CD, Keycloak, OpenSSL, Bruno

APIs & Real-Time: REST APIs, GraphQL, WebSocket APIs, OAuth 2.0 / OIDC

Databases: PostgreSQL, MySQL, Oracle, MongoDB

Concepts: System Design, Agentic AI Architecture, Data Structures & Algorithms, OOP, Security