

ALANDIS AYUPOV

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WORK EXPERIENCE

IT Support

June 2025 – Present

Tri-State Energy

New Brunswick, NJ

- Ensured sophisticated regression testing by creating a suite of over 200 E2E automated frontend user interface tests using Playwright.
- Streamlined an external API submission process by implementing 1,000+ internal business-rule validations using SQL and an in-house engine to standardize and accelerate development.
- Automated testing for all business-rule validations and external API functionality by generating thousands of sample payloads using the same in-house engine.
- Prevented numerous critical bugs from reaching production through both manual and automated testing methods.
- Reduced organizational cybersecurity risk by administering cybersecurity training and regulating firewall access.

Software Development Intern

Mar 2025 – Jun 2025

Dulcian, Inc.

Woodbridge, NJ

- Engineered comprehensive automated test suites using Selenium to stream line UI testing and reduce manual verification cycles.
- Executed, documented, and retested resolution workflows for over 200 technical tickets, ensuring strict adherence to functional requirements.
- Architected tiered test scripts (critical, moderate, and exhaustive) to rigorously benchmark application stability and prevent regression.
- Validated bug fixes across release cycles and performed pre- and post-deployment validation tests to ensure zero-downtime production rollouts.

MSCS Student Programmer

Sept 2024 – Mar 2025

Rutgers University

New Brunswick, NJ

- Developed a Python application leveraging GPT-4o to automate responses to student emails.
- Improved response accuracy by 10% by implementing cluster-based similarity retrieval and hybrid search functionalities.
- Engineered a Retrieval-Augmented Generation (RAG) pipeline by chunking and embedding source data.
- Expanded response versatility and coherence by designing a robust sequence of prompts to handle diverse inputs.
- Optimized API usage and reduced operational costs by implementing batch processing.
- Minimized system overhead by utilizing IMAP for email ingestion and SMTP for dispatching automated responses.
- Evaluated and benchmarked LLM performance using DeepEval.

PROJECTS

Applicant Tracking System

- Collaborated with a team to design a Python and Flask-based applicant tracking system at HackRU.
- Utilized a SQLite database for applicant and resume information storage.
- Encoded resumes using Base64 to store PDFs as strings.
- Utilized Gemini 2.0 Flash for resume evaluation prior to storage in a database.

EDUCATION

Rutgers University

New Brunswick, NJ

Bachelor of Science in Computer Science, Minor in Economics

May 2025

GPA: 3.88/4.00

Relevant Coursework: Operating Systems, Software Methodology, Computer Security, Internet Technology, Design & Analysis of Computer Algorithms, Data Structures

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript/TypeScript, C, SQL, HTML

Frameworks/Tools/Libraries: Docker, Playwright, Selenium, React, Node.js, Express.js, JUnit, Pytest, Git, Postman

Other: Linux