Rustam Mamedov

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EDUCATION

University of Western Ontario   London, ON
Bachelor of Science – Honors Specialization in Computer Science   *Aug. 2020 – May 2024*

EXPERIENCE

Quality Engineer   May 2022 – Aug. 2022
TD Bank   *Toronto, ON*
- Developed and executed formal test approaches to support the delivery of applications/solutions using automation
- Created CI/CD pipelines aimed at improving the code quality of the automation framework with static code checking using Jenkins integrated with Bitbucket
- Developed Databricks notebooks in Python to analyze incoming data and assure data integrity
- Performed and contributed to data ingestion and extraction cloud projects in Azure integrated with JTMF

Backend Developer   Oct. 2021 – Jan. 2022
Leapgrad   *Toronto, ON*
- Refactored the API codebase (removed 1000 lines of code), improved readability and sustainability of the code
- Co-developed an admin panel feature that serves analytics data regarding the users and threads on the platform, among other features
- Optimized database (MongoDB) queries and implemented Redis caching in search endpoints, significantly reducing the response time (5-10 times faster)

PROJECTS

HandsFree - Hack Western 7 – 1st Place | *Python, OpenCV, Tkinter*
- Developed an application that allowed users to control their computers with the motion of their head and face
- Used OpenCV to track motions of the head and face (tilting, mouth motions, nose position) and map them to input actions (moving cursor, clicking, scrolling)

Spur - Pinnacle | *Javascript, Java, Flutter, Express, MongoDB*
- Competed at North America's top collegiate hackathon, with winners gathered from 50 different hackathons from Canada, US, and Mexico
- Developed a mobile application to allow for more effective promotions for local businesses

Spry | *Typescript, React, Express, MongoDB*
- Developed a full-stack web application using Typescript with an Express REST API and a React frontend
- Implemented Auth0 for secure authentication and authorization
- Implemented GitHub Actions CI/CD pipeline for automated testing

Pathfinding Visualizer | *Javascript, Svelte, HTML/CSS*
- Used the Svelte framework to create a vibrant pathfinding visualizer
- Visualizes DFS, BFS, Dijkstra's, and A*

Distributed Password Cracker | *C*
- Developed a password brute-force application that distributes the workload across multiple worker nodes
- Utilizes UNIX C sockets API for communication
- Features I/O multiplexing using select() and multi-threaded worker clients

SKILLS

Languages: JavaScript, TypeScript, Python, Go, Java, C, HTML/CSS, PHP, SQL, R
Frameworks: React, Express, Vue, Node.js, Svelte, Flask, Material-UI
Developer Tools: Git, Docker, Azure, Linux, AWS, Heroku, Netlify

CERTIFICATIONS

AZ-900: Microsoft Azure Fundamentals