

Vadym K.

SDET / AQA / Principal Test Automation Engineer

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Professional summary

SDET with 10+ years of experience in IT industry, proficient in Quality Assurance Testing and Test Automation (Web, Desktop and Mobile) for large enterprise applications. Vadym is skilled in Python and JavaScript related technologies and has hands-on experience with AWS. He dealt with multiple tools in functional, non-functional test automation and can build a full CI/CD pipeline from scratch. A talented professional with strong leadership skills, who keeps track on the latest trends and best practices in testing industry and DevOps.

Education	National Aerospace University named by N.E.- Bachelor in Mechanical Engineer of Aircraft Engines
Languages	English, Polish
Skills	Python, JavaScript, TypeScript AWS (Lambda, EC2, SQS, SNS, ECR, ECS, Cognito, CloudWatch, S3, IAM, ELB, NAT Gateway) Jenkins MySQL, PostgreSQL, MongoDB Selenium, Playwright, Appium, Selenoid, Pytest, Jest, Mocha Flask, Tornado, GoLang Gin, Nest.js Flutter, Angular Kubernetes, Terraform Docker Git

Technical Presentations & Activities

- Created and led presentations and workshops for engineers;
- Won ‘Innovation Award’ inside the company (24.000 employees);
- Contributed to Test Automation by writing articles on medium.com and consulting other companies;
- Created and led programming courses (Python and JavaScript) on the company level;
- Designed mentorship program which was successfully launched in the company for training new engineers.

Programming Experience

- Developed Web service to remotely manage Android/iOS devices using REST API;
- Created test tool for Performance UI testing (Load and Endurance) of Cordova applications;
- Developed ‘Status page’ Web application to monitor availability of project microservices as well as automation infrastructure;
- Implemented a set of Python libraries for easy setup of automation and development projects;
- Developed (and then led the development) a Reporting app using Postgres, Python Flask and Angular that optimized QA team feedback on test execution results as well as represented QA metrics in one place;
- Designed and developed a POC of Web application ‘Language Platform’ using Angular, Python Flask and Tornado;
- Designed and developed iOS Mobile application ‘All Cards in One App’ using Flutter.

Leadership Experience

- Effectively organized work in teams (up to 40 engineers) distributed across countries (USA, Ukraine, India, Columbia, Hungary);
- Engaged and inspired teammates to pursue team goals by revealing their best sides and giving an area for development;
- Implemented and facilitated succession planning to evaluate individual skills identifying and developing leaders on the project level;
- Improved a process of performance review on a company level developing grading form;
- Implemented a scorecard tool for evaluating job candidates during the interview process, resulting in more consistent and objective decision-making in the company.

Company	**Dev.pro**
	Multiple projects
Period	Nov 2018 – till now
Role	Principal QA Automation Engineer
Technologies	Python, TypeScript, Selenium, Appium, Node.js chai-http, Playwright, Selenoid, Pytest, Flask, Tornado, Nest.js, Gin, Angular, Flutter, MySQL, MongoDB, SQLite, PostgreSQL, Jenkins, AWS (EC2, S3, SQS, ECR, ECS, Lambda), Docker, Docker-Compose, Ansible, Terraform, Kubernetes

Responsibilities

- Created architecture of automation frameworks for complex systems (Microservices/Monolithic) for functional and non-functional automation verifications;
- Defined test automation approach, process and levels of testing (Unit, Component (UI/API), Integration, E2E) on different projects;
- Evaluated AUT for readiness to the test automation;
- Determined and provided QA metrics (coverage, velocity, risk areas);
- Set up a structured and comprehensive automated arrangement of test data input close to 'real'/'live', considering security nuances;
- Implemented re-usable application-specific libraries to reduce testing costs and time;
- Set up the CI/CD process for the whole system. Integrated automation testing into the CI/CD pipeline. Implemented automation test execution after every change in software;
- Developed a tool for UI Performance testing of Web UI, Electron and Cordova apps;
- Built a mobile lab with real devices/emulators. Implemented a server to manage and monitor the lab. Connected the lab to CI;
- Investigated and integrated into automation framework and CI existing mobile cloud solutions (Kobiton, BrowserStack, SauceLabs, AWS Device Farm);
- Wrapped services with Docker into a container and orchestrated services using Docker-Compose;
- Set up a process of pushing images to AWS ECR;
- Wrote AWS CloudFormation Templates to deploy to AWS ECS;
- Integrated Ansible into automation framework to provide EC2 instances before/during tests execution;
- Created a service to easily get information about all microservices using AWS S3 static website, API Gateway and Lambda;
- Organized GIT flow on the different automation projects.

Company	**Dev.pro**
	Multiple projects
Period	Oct 2017 – Nov 2018
Role	Senior QA Automation Engineer
Technologies	Python, Flask, JavaScript ES6, Selenium, Appium, Node.js chai-http, K6, Pytest, MongoDB, SQLite, Jenkins, AWS (EC2, S3, SQS, ECR, Lambda), Docker, Docker-Compose

Responsibilities

- Created (and further expanded) an automation framework from scratch for different testing layers (Component, Integration, E2E);
- Automated functional and non-functional test scenarios;
- Defined a technology stack for automation testing (programming language, tools, libraries);
- Defined the automated testing process and automation priorities based on business needs;
- Measured automation coverage and determined areas for automation;
- Developed tools for automation purposes (such as hardware emulators (printer/drawer/pax), reporting tools, mobile lab management server, stubs, etc);
- Implemented re-usable application-specific libraries to reduce testing costs and time;
- Executed automation tests on CI, investigated and reported results to stakeholders, monitored regular runs;
- Integrated automation framework with third-party tools (reporting, database, Confluence, Jira);
- Performed test data preparation for automation tests;
- Setup and configured (as a code) CI (different types of jobs and tool itself);
- Integrated automation tests into CI/CD pipeline;
- Wrapped services with Docker into a container. Orchestrated services using Docker-Compose;
- Used AWS Services (EC2, S3, SQS, ECR) in automation testing;
- Parallelized tests (CI level or using test runner);
- Created various technical documentation: training manual, UML diagrams, etc.
- Collaborated across multiple teams within a project;
- Supervised less experienced team members and performed automation team support.

Company	**Dev.pro**
	Multiple projects
Period	Apr 2016 – Oct 2017
Role	QA Automation Engineer
Technologies	Python, JavaScript ES6, Selenium, Appium, Node.js chai-http, Pytest, Python Unittest, MongoDB, SQLite, Jenkins

Responsibilities

- Built several automation frameworks for Web (UI and API) and Mobile testing from scratch with Node.js and Python;
- Wrote and executed automation tests for UI testing using Python and Selenium WebDriver;
- Wrote and executed automation tests for API testing using Node.js and chai-http;
- Wrote and executed automation tests for mobile web application using Python and Appium;
- Code review;
- Set up automation projects on CI (Jenkins);
- Wrapped automation tests with Docker into a container;
- Communicated with the client;
- Developed a Reporting System for automation tests using Python (Jinja2, SQLite) to provide test results.

Company	**Nika Entertainment**
	Multiple projects
Period	Oct 2014 – Mar 2016
Role	Software QA Engineer
Technologies	Java, TestNG, Appium, Sikuli

Responsibilities

- Wrote and executed manual test scenarios for Mobile and Social games;
- Wrote simple automation scripts for Smoke testing for hybrid mobile apps using Java, TestNG, Appium and Sikuli (image recognition);
- Led a small QA team (5 people).

Company	**G5 Entertainment AB**
	Multiple projects
Period	Nov 2013 – Oct 2014
Role	Software QA Engineer
Technologies	AVD/Xcode, Android, iOS, Windows, Mac

Responsibilities

- Performed functional, smoke, integration, localization, compatibility, regression, release acceptance testing of mobile (Android, iOS, Windows) and Desktop (Windows, Mac) applications;
- Used AVD/Xcode to grab logs from Android/iOS devices or run Emulators/Simulators;
- Wrote and executed manual test scenarios for Mobile games;
- Provided test reports to the stakeholders.