IHOR LAZARKOV

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github: <https://github.com/ihorLazarkov>

Full Stack Engineer, Backend Engineer

Experienced Software Engineer in Test (9 years as SET, 15 years in QA) actively transitioning to a Full-Stack and/or Backend Engineer role. Leverages proven expertise in designing, developing, and deploying frontend and backend systems within distributed microservices and monolithic architectures. Demonstrates hands-on capability in React and Flask for delivering e-commerce solutions, complemented by a deep understanding of software quality and testing.

Technical Skills: JavaScript, TypeScript, Java, Python; React, Flask | ExpressJS, NodeJS, NGINX | HTML, CSS, jQuery, Bootstrap, SpringBootMVC| TDD, BDD, Cucumber, Cypress, WebDriverIO, Selenium, Serenity BDD, FitNesse, Mocha, JUnit, TestNG, PyTest, RestAssure, Postman, JMeter| HTTP 1.1, HTTP 2, HTTPS, WebSockets (ws), gRPC, REST, EMS, MQ; Sequelize, SQLAlchemi, Alembic, Hibernate, SQL, Postgres, Oracle, SQLite | Docker, K8S, Gradle, npm, pip, pipenv, git, GitHub, Jenkins, GitLab, Graphana, Chrome, Safari, devtools, react-devtools, geolocation API, Google MAP API, Speech Recognition API.

Professional Experience

**Software Engineer, Front End -** [**Layer5**](https://layer5.io/)**, USA, Remote | March 2025 - Present**

*Tech stack:* JavaScript, TypeScript, React, CSS, Gatsby, Vite

Worked as a Software Engineer in an open-source project with an international team of contributors. The project provides standardized components for Layer5 projects.

* Gained expertise in existing JSX, TSX, CSS codebase by analyzing requirements, unit tests, codebases to become domain knowledge expert;
* Implement functionalities applying well-fit data-structures (e.g. map, list, set), architecture (using interfaces, types, OOP principles), design patterns (e.g. Singleton, Builder, Commander, Factory ) that provide maintainable and scalable codebase;
* Analyze existing codebase (presents of *media queries*, *aria-label* attributes etc) to audit its adherence to responsive web design and accessibility practice;
* Debug new and existing issues when an issue is reproduced and root caused utilizing: gained knowledge of the code, Chrome-devtools and react-devtools debugging tools, analysis of logs;
* Address discovered issues and develop bugfix when obtained domain knowledge, implementing clean and documented code utilizing declared types, interfaces, enums;
* Managed code contributions via Git, regularly merging updates and submitting well-documented pull requests;
* Participate in community meetings, attentively listen to changes being introduced by others and present completed work.

**Software Engineer, Testing - Accenture, Nashville, TN | Apr 2024 - Present**

*Tech stack:* Java, Selenium WB, Serenity BDD, Cucumber, Applitools, Gradle, Jenkins, Git

Worked as Senior Software Engineer in Test in a team of 6 engineers. Responsible for delivering software for automation testing of functional and integration tests with following integration into CI/CD. Communication with product ownership to learn functionality, demo of completed work, gather feedback and deliver improvements.

* Contributed to software for automation testing with development of architectural solutions utilizing best practices, OOP principles (e.g. polymorphism, inheritance, encapsulation) programming design patterns (e.g. Builder, Singletone, Factory, Commander or Strategy, Facade) and decoupling implementation and encapsulation via abstract methods, interfaces and functional interfaces;
* Developed reliable software for automation testing of Web-pages and solved high-complex problems by thorough analysis of HTML, CSS and JavaScript via effective use of Dev-tools to identify mechanism of functioning of components of the page;
* Design test scenarios in Gherkin language using parametrizable instructions, DataTables, Scenario Outline for reusability with maximum level of readability for non-technical people as well as with exhaustive level of details to make test valuable assets and source of truth;
* Development of glue code (executable code associated with each command in feature file) and organizing it in clear per web page and/or per functionality manner to establish clear ownership and responsibilities to avoid code duplication and improve maintenance;
* Meticulous code analysis of transitioned project by debugging, executing of tests, gaining ownership of a code-base, refactoring and as a result stability improvements, decrease of duplicated code by ~1800 lines and tests execution time by up to 40%;

*Additional Professional Experience*

* Software Engineer, Testing - Cisco Meraki, San Francisco, CA | May 2022 - Apr 2024
* Senior Software Automation Test Engineer - EPAM Systems, Newtown, PA | Oct 2008 - Feb 2022
* Automation Test Engineer - Luxoft, Odessa, Ukraine

Education

**Full-Stack Engineer - App Academy, Remote | Dec 2024 - May 2025**

*Tech stack:* HTML, CSS, React, JavaScript, Flask, Redux, Sequelize, SQLAchemi, SQLite, Postgres, Docker, Git, Geolocation API, Speech recognition API, Google Maps API

Worked as Full-Stack Development in a team of up to 4 engineers to create e-commerce web-applications. Contributed in architecture design, implementation of back-end and front-end components, code review, testing, merge and deployments.

* Created host server from ground-up by configuring NGINX to serve as reverse proxy to both HTTP 1.1 and WebSockets web-services and web-apps with support of HTTPS with self-sign certificate generated via openssl;
* Integrated ORM systems to establish persistence of state of web-service by creating models with validators and dependencies (e.g. one-to-one, one-to-many, many-to-many), versioned migrations to create tables in database and schema, and seed files to populate values in database to perform testing or demos.
* Implemented GET, POST, PUT, DELETE routes and error-handling middleware based on HTTP 1.1 for RESTful web-services using sync/async functions, try/catch blocks to catch errors and transfer them to error handling middlewares for resilience and overall up-time;
* Implemented transactional data persistence by using Transaction entity of ORM within try/catch block in sensitive pieces of functionality such as update or delete of an item and its dependent entities to guarantee data integrity;
* Implement state management store on client side of web-app with utilizing of sync and async (thunk) approaches to perform CRUD communications with back-end;
* Implemented reusable React UI components with optimal utilization of react hooks (e.g. useState, useRef, useSelect etc.) for optimal rendering to provide better responsiveness and user experience;
* Perform effective bug fix by efficient root cause analysis utilizing debugging tools (e.g. Chrome devotools, React devtools), analyzing logs and applying of gained high level of expertise in the business domain what helped a team to deliver in time;
* Communicated effectively within a team by creating meeting agenda and timeframe, responsive to emails, analyzing issues independently and asking questions with clearly composed questions;
* Gathered web-apps statistics using Grafana to identify users visits rate daily, journey paths by storing called URIs with sessions Ids.

Master of Computer Systems & Networks | Odessa National University; Bachelor of Computer Systems & Networks | Odessa National University; Certifications: LFW211: [Node.js](http://node.js) Application Development | The Linux Foundation; edX | Performance Testing Course | Perforator Club.