

# HAMZA ZAHID BUTT

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## PROFESSIONAL SUMMARY

Experienced Software Engineer with over 7+ years in the software industry, specializing in data extraction, web QA automation, and end-to-end software development lifecycle (SDLC). Adept in TypeScript, JavaScript, Python, SQL, and Java, with hands-on expertise in Docker, CI/CD pipelines, and cloud platforms like AWS. Proven track record of automating complex data workflows, including PDF parsing and large-scale data ingestion, to improve processing efficiency and prediction accuracy. Familiar with applying Machine Learning techniques for intelligent data analysis and system optimization. A strong advocate of clean code, quality-first development, and technical leadership, consistently delivering scalable solutions in fast-paced, cross-functional environments.

## TECHNICAL SKILLS

**Languages and Frameworks:** JavaScript, TypeScript, Python, Java, Spring Boot, Node.js, React.js, HTML5, CSS3, RESTful APIs, GraphQL

**Cloud and DevOps:** AWS (EC2, Lambda, S3), Docker, Kubernetes, CI/CD Pipelines, GitHub Actions

**Testing and Automation:** Playwright, Puppeteer, Cypress, WebdriverIO, Protractor, Selenium, Mocha, Chai, Allure Reports, TestProject.io, Postman

**Data and Analysis:** Pandas, Data Science, Data Analysis, Excel, PDF Parsing, Automated Data Processing, Web Scraping, Import.io, Workbench

**Databases:** PostgreSQL, MySQL, SQL

**Monitoring and Project Management:** Jira, Trello, Monday.com, Zendesk

**Roles and Expertise:** Software Engineer, Data Analyst, SQA Engineer (SQA), SDLC Implementation, API Testing, UAT, Network Request Handling (GET/POST)

## PROFESSIONAL EXPERIENCE

### Arbisoft (Hybrid / Remote)

Aug 2018 – Jul 2025

*Senior Software Engineer*

*Lahore, Pakistan*

- Develop and maintain large-scale web scraping systems for the Zuub project using TypeScript, Puppeteer, and Playwright.
- Automate data extraction and processing workflows, including complex PDF parsing using Python.
- Implement test automation using WebDriverIO, Cypress, Selenium, Protractor, and unit testing frameworks.
- Collaborate with cross-functional teams in Agile environments, using tools like Jira, Trello, and Zendesk.
- Technologies: TypeScript, JavaScript, Python, Node.js, React.js, REST APIs, SQL, GCP, Git, Excel, Google Sheets.

### Arbisoft (Remote)

Jan 2024 – Aug 2024

*Software Engineer – Zuub Project*

*Lahore, Pakistan*

- Maintained web scraping functionality using TypeScript with Puppeteer for Zuub.
- Wrote unit tests to validate data extraction and ensure pipeline reliability.

### Arbisoft (Hybrid)

Jun 2022 – Feb 2024

*Software Engineer – Kayak Project*

*Lahore, Pakistan*

- Worked with TypeScript, Node.js, and automation frameworks such as Selenium, Protractor, WebDriverIO, and Cypress.
- Tested complex UI components and APIs, contributed to QA automation efforts.

### Arbisoft

Jan 2021 – Jul 2022

*Software Engineering Team Lead – Import.io Project*

*Lahore, Pakistan*

- Led a team responsible for data extraction, validation, and quality checks using Python and REST APIs.
- Oversaw implementation of automation strategies and dashboards for performance monitoring.

### Arbisoft

Jul 2018 – Jan 2021

*Software Engineer – Import.io Project*

*Lahore, Pakistan*

- Contributed to scraping and automation solutions using Node.js, JavaScript, and Python.
- Performed data quality verification and integration with REST APIs.

## HashiCorp (Internship)

*Software Engineer Intern*

**Feb 2018 – May 2018**

*Lahore, Pakistan*

- Assisted in frontend development using HTML, CSS, and Laravel.
- Collaborated on UI components and internal web tools.

## TCAW Global (Internship)

*Web Developer Intern*

**Sep 2017 – Dec 2017**

*Lahore, Pakistan*

- Developed static and dynamic websites using HTML, CSS, JavaScript, Bootstrap, and WordPress.
- Practiced responsive design and collaborated with the design team.

## PROJECTS

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Zuub Web Scraping (Arbisoft) | TypeScript, Puppeteer, Playwright, Python

- Designed and implemented scalable scraping pipelines using TypeScript with Puppeteer and Playwright.
- Automated PDF data parsing workflows using Python, improving accuracy and speed of data collection.
- Led integration with REST APIs and streamlined data delivery pipelines for structured ingestion.

Kayak (Arbisoft) | TypeScript, WebdriverIO, Protractor, Playwright, Mocha, GitLab, Bamboo

- Automated mobile and tablet web view tests using Playwright in Mocha with TypeScript, reducing manual QA by 60%.
- Maintained over 5000 regression, 3000 sanity, 1000 smoke, and 500 production-level test cases.
- Used WebdriverIO, Protractor, Cucumber, and Selenium to build scalable automation suites.
- Managed version control through GitLab and Bitbucket, integrated CI/CD with Atlassian Bamboo.
- Mentored QA team and collaborated with developers and product managers to ensure test coverage and daily release updates.

Import.io (Arbisoft) | Node.js, Python, REST APIs, Google Sheets, Jira, Zendesk, Trello

- Developed web scraping and data quality solutions using Node.js, JavaScript, and Python.
- Performed automated data validation through RESTful APIs and Google Sheets integrations.
- Delivered over 15 successful client projects including BAT, Salsify, Cotiviti, GetYourGuide, and more.
- Utilized Jira, Zendesk, and Trello for agile task tracking and client communications.

Easy Rozgar – Customer Service System (HashiCorp) | Android Studio, Visual Studio, SQL Express

- Built a customer service app to streamline request management using Android Studio and Visual Studio.
- Implemented SQL Express for local database support and enhanced data reliability.

Kids Care Management System (TCAW Global) | HTML, CSS, PHP, Bootstrap, Wordpress

- Developed an online child care management platform for working parents using HTML, CSS, PHP, and Bootstrap.
- Ensured mobile-friendly, responsive layout and user-friendly design for better usability.

## EDUCATION

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**Technische Universität Ilmenau**

*M.Sc. Research in Computer & Systems Engineering*

**Apr 2025 – Present**

*Ilmenau, Germany*

**Lahore Garrison University**

*Bachelor of Science in Computer Science (BSCS)*

**Sep 2014 – Sep 2018**

*Lahore, Pakistan*

## CERTIFICATIONS

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Automate Development Tasks Using GitHub Actions (Microsoft, Dec 2023)

*Skills: Automation, Git*

Build Continuous Integration (CI) Workflows Using GitHub Actions (Microsoft, Dec 2023)

*Skills: Automation, Git*

Crash Course on Python (Google, Apr 2023)

*Skills: Python, OOP, Problem Solving, Software Quality, Communication*