# Matthew Adams

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# PROFESSIONAL SUMMARY

Dynamic, results-driven, and ISTQB CTFL QA Test Lead and Automation Engineer with 20+ years of expertise, specializing in Selenium/Python and Agile methodologies. Proven track record in developing and implementing automation frameworks that enhance quality, accelerate delivery, and reduce costs, with a passion for driving innovation and ensuring top-level software performance.

SKILLS

* ISTQB CTFL Certified
* Programming: Python, JavaScript, CI/CD & Version Control, Web Scraping
* Test Automation: Selenium, Pytest, PlayWright, LoadRunner, Performance Center, Postman, Gherkin, JavaScript Unit Testing, Vitest Unit Testing, Test Driven Development
* Web Technologies: HTML, XML, CSS, JSP, ASP, XPATH, MERN/MEAN Stack
* Project/Test Management Tools: JIRA, TestRail/TestRail Administration, Quality Center
* Project Skills: Agile Methodology, Quality Assurance Standards, Problem Solving, Decision Making, Communication, Team Management, Cross Functional Collaboration. Critical Thinking, Risk Based Testing
* Cloud/Infrastructure: AWS, Linux, Unix
* Database: Oracle, SQL Server, MongoDB
* IDEs: PyCharm, Visual Studios Code, Jupyter Notebook, Google Colab
* Machine Learning: Python, SQL, Supervised Learning (Classification, Regression), Linear Regression, K-Nearest Neighbors, Decision Trees, Random Forests, Gradient Boosting, Naive Bayes, Ensemble Models, Model/HyperParameter Tuning

# EXPERIENCE

Career Growth Sabbatical

**11/2023-Current**

* Completed advanced coursework in Python, JavaScript, Selenium, Playwright, Robot Framework, API Testing, REACT/MERN Development, SQL, Machine Learning.
* Achieved ISTQB Certified Tester – Foundation Level certification to strengthen core software testing knowledge and industry best practices.
* Built a full‑stack MERN (MongoDB, Express, React, Node.js) application to catalog, search, and manage baseball cards, applying modern React features (hooks, context) and RESTful APIs..
* Designed and implemented full‑stack test coverage for a MERN app:
* Selenium/Python for end‑to‑end browser tests including form validation
* Postman + Newman for REST API testing
* Vitest for Node.js back‑end unit/integration tests
* React Testing Library & Vitest for component/unit tests
* Developed an NCAA basketball betting analytics model in Python, combining automated data scraping (Selenium) from KenPom and Vegas Insider with statistical analysis to predict game lines and totals, achieving a slight edge against posted odds.
* Combining machine learning and sports analytics by building models to predict MLB game results, alongside Kaggle classification challenges to refine data preprocessing and model evaluation skills.
* Currently in the initial phase of preparing for AWS Certified Cloud Practitioner certification to deepen understanding of cloud computing fundamentals.

Warner Brothers Discovery, Atlanta, GA

**10/2007-10/2023**

**QA Test Lead**

* Developed and implemented a robust Selenium/Python based page object model automation framework, reducing project setup time by over 80%.
* Led and executed automated testing for complex UI-centric frameworks such as React and Angular.
* Managed QA processes as the QA Test Lead on high-profile, end-to-end MERN stack projects starting from business requirements gathering through development/testing, UAT and product launch.
* Designed comprehensive JIRA dashboards to facilitate real-time tracking of testing progress, defect trends, and team productivity, supporting data-driven decision-making.
* Leveraged extensive AWS cloud infrastructure expertise to enhance test environments and support scalable testing solutions.
* Integrated automated regression testing into the CI/CD pipeline, improving overall efficiency and reliability by over 60%..
* Spearheaded the adoption of automated API testing, achieving a 50% increase in test coverage.
* Collaborated closely in an Agile environment with business analysts, developers, product users, and architects to design, develop, and execute comprehensive test plans aligned with business requirements.
* Played a key role in the QA Metrics Group, aggregating and publishing metrics from various tools (Quality Center, JIRA, TFS, Pivotal Tracker) into a unified reporting system.
* Acted as the engineering lead for the deployment of HP Performance Center, enabling advanced performance testing capabilities.
* Trained and mentored new QA resources on internal tools and applications, facilitating a successful transition from on-shore to off-shore teams to optimize costs.
* Partnered with clients and end-users to clarify and address complex functionality and business requirement questions during the testing process.
* Conducted internal training sessions on automation frameworks, API Testing, Unit Testing React code, performance testing methodologies, and diagnosing performance issues to upskill team members.

Compucredit, Atlanta, GA

**2/2006-10/2007**

**Senior Performance Engineer**

* Led performance engineering efforts for Compucredit Standalone Interactive Loan Project, a web based loan application running on an IBM Websphere clustered environment.
* Responsible for configuration, tuning, code profiling, hardware resource profiling, debugging and optimizing of Interactive Loan platform.
* Reduced memory leaks in the application by over 90% through diagnosis, code profiling and optimization.
* Partnered very closely with business analysts, developers, and architects to design, develop and execute test plans to ensure that the Standalone Interactive Loan project satisfied business requirements.
* Various systems administration roles including Subversion, Oracle Installs, Documentum setup/installation and Red Hat updates.
* 2006 Valued Services Employee of the 4th Quarter Award Winner.

Pyramid Consulting, Inc. (Turner Broadcasting), Atlanta, GA

**7/2004-2/2006**

**Senior Performance Engineer/Senior Quality Engineer**

* Responsible for documenting the installation, configuration, design, tuning, failover (destructive) testing, and performance testing for Turner Broadcasting System's Oracle 10g RAC Standard Operating Environment and the introduction into GRID computing.
* Successfully implemented destructive testing cycle for failover/recovery testing Oracle 10g RAC Standard Operating Environment.
* Responsible for the Capacity Planning and Performance Testing of the numerous Turner Broadcasting Systems, INC. projects
* Intimately involved in the performance profiling of Turner Infrastructure. Work closely with architects, developers, system administrators to find bottlenecks and performance issues before software went into production.

CERTIFICATIONS

**International Software Testing Qualifications Board (ISTQB) - CTFL (Certified Tester Foundation Level)**, 2024

EDUCATION

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## **Georgia Institute of Technology, Atlanta, GA**

#### Bachelor of Mechanical Engineering