

Kenneth Thomas Barrett

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Technical Skills

Languages / Libraries: Python, SQL, XML, BeautifulSoup, Selenium, Scikit-Learn, TensorFlow/Keras, Plotly

Testing: Pytest, Selenium, Exploratory Testing, Smoke Testing, Regression Testing, Test Case Development

Tools / Platforms: Jira, Redmine, TestRail, Jenkins, Git, AWS Lambda, CI/CD pipelines

Experience

Sentact

Remote

QA Engineer

Dec 2025 - Present

- Perform automated and manual testing across web, Android, and iOS platforms to verify application quality
- Updated over 100 deprecated pytest and Selenium test cases to align with current application functionality
- Write and maintain new automated test suites using pytest and Selenium for cross-platform coverage
- Conduct exploratory, smoke, and regression testing to identify defects before production releases
- Track and document defects in Redmine while managing test cases and results in TestRail
- Integrate automated tests into Jenkins CI/CD pipelines to support continuous delivery workflows

MHM Communities

Franklin, NC

Software Engineer - Automation / Operational Efficiency

May 2025 - Oct 2025

- Built a Python pipeline to collect and enrich contact data for targeted community residents
- Scraped Spokeo and Whitepages using Selenium and BeautifulSoup to gather contact details
- Retrieved contact information through EnformionGO's Contact Enrichment API to improve data accuracy
- Implemented fuzzy name and location matching to account for aliases and nearby cities
- Validated emails and phone numbers using MailerCheck and IPQS APIs to confirm deliverability

Drake Software

Remote

OLTP Support (Seasonal)

Aug 2024 - Apr 2025

- Assisted end users with technical questions for a DIY tax product, providing accurate and timely support
- Helped onboard new hires and assisted with escalated issues across the support team

Software Tester

Oct 2021 - May 2024

- Validated XML transmission files tied to the successful transmission and acceptance of 1M+ tax returns
- Developed 700+ test cases alongside tax analysts to cover four taxing authorities
- Ran regression testing to catch defects before software updates reached production
- Tested core tax calculations, including the standard deduction, to confirm accuracy against tax laws
- Created testing guidelines and trained new hires to keep testing standards consistent

PrimeNeuro

Remote

Senior Data Specialist

Oct 2020 - Aug 2021

- Developed an iterative infant MRI annotation process that improved accuracy and consistency of neuroimaging data
- Trained and managed a data annotation team, overseeing daily operations and maintaining data quality standards
- Built a KPI dashboard to track team performance, productivity, and data quality metrics
- Trained a TF-IDF model on quality control notes to surface actionable insights for research scientists

Hairtelligence

Remote

Senior Software Engineer (Contract)

Oct 2020 - May 2021

- Led technical direction and aligned development with digital marketing best practices to grow user engagement
- Built a face-swapping feature in Python for virtual wig try-ons, improving the user experience
- Deployed the feature to AWS Lambda for serverless scalability and cost efficiency

Education

University of the People

Remote

Bachelor of Science, Computer Science

May 2027

President's List (Current)

Bloom Institute of Technology

Remote

Data Science, Computer Science Track

Oct 2020

K12 International Academy

Remote

High School Diploma, Emphasis on Computer Science

May 2014

Award for Excellence in Computer Science