

Kenneth T. Barrett

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Skills

Languages: Python, SQL, XML, HTML

Tools/Technologies/Frameworks: Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, Plotly, Matplotlib, MongoDB, FastAPI, Flask, Django, Git, AWS, Selenium, WordPress

Software Testing Strategies: Unit, Integration, Functional, End-to-End, Acceptance, Smoke, Regression

Experience

Software Tester, Drake Software – Franklin, NC Oct 2021 – May 2024

- Developed and maintained highly complex test cases for numerous classifications of tax returns
- Executed manual and regression testing of tax forms and transmission files, ensuring the successful acceptance of over 1,000,000 tax returns annually
- Recommended improvements to team workflow using Jira, decreasing turnaround time and simplifying processes
- Guided contractors on testing practices, fostering a knowledgeable and skilled team
- Produced extensive documentation of testing practices and improvements for testing XML files, reducing turnaround times for manual testing processes

Senior Data Specialist, PrimeNeuro – Durham, NC (Remote) Oct 2020 – Aug 2021

- Expanded neuroimaging research capabilities by developing methods for editing pediatric MRI segmentations
- Engineered a TF-IDF model and made visualizations using quality control notes to drive data-driven decisions
- Facilitated training for and directly supervised data entry specialists editing pediatric MRI segmentations
- Administered quality control reviews of team edits, in addition to results output by segmentation models
- Built a KPI dashboard to track team editing performance as a means of continuous improvement

Senior Software Engineer (Contractor), Hairtelligence – Philadelphia, PA (Remote) Oct 2020 – May 2021

- Engineered a face-swapping feature, enabling users to virtually try on wigs and enhancing user experience
- Deployed the face-swapping feature to a serverless architecture using AWS Lambda
- Advised on technical vision, enhancing product offering capabilities by engineering an expandable feature
- Developed feature with consideration for digital marketing best practices, ensuring low compute times to reduce bounce rates on the company website

Digital Marketing Specialist, Founder, Free-Spirited Mind – Sugar Land, TX (Remote) Feb 2013 – May 2019

- Developed and maintained the organization's website using WordPress, ensuring a positive user experience
- Spearheaded content creation strategy, leveraging data-driven insights to target low-competition, high-traffic keywords and progressively scaling to high-competition keywords
- Strategized and executed interlinking strategies to enhance user experience and crawlability
- Implemented successful backlink campaigns from high-quality, relevant sources, increasing domain authority
- Collaborated on social media promotions and led A/B testing of ad placements and providers
- Analyzed website and campaign performance, reported key insights to the team, and adapted strategies accordingly
- Executed email campaigns, ensuring seamless integration with overall marketing efforts
- Managed title tags and metadata to ensure adherence to SEO best practices
- Propelled a new domain to dominance in SERPs within its niche, demonstrating expertise in SEO strategy and execution

Education

University of the People – BS in Computer Science Present

Bloom Institute of Technology – Data Science & Machine Learning, Computer Science Oct 2020

K12 International Academy – High School Diploma, Emphasis on Computer Science June 2014