MIKE TAYLOR III

AI Engineer

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Professional Summary

AI Engineer with strong skills in Python, JavaScript, and C++. Skilled in predictive modeling, NLP, deep learning, and agentic AI workflows, with experience handling and analyzing complex datasets, and deploying CNNs, regression models, transformers, and multi-agent LLM systems using CrewAI, OpenAI SDK, and Hugging Face. Strong knowledge of Agentic AI and LLM engineering, with a focus on building scalable, production-ready AI solutions. Currently pursuing a Master's in Data Science (PhD in AI planned), passionate about applying AI, automation, and big data to solve real-world problems. U.S. citizen based in Mielec, Poland, holding a Polish work and residence visa, and a native English speaker with international experience.

PROJECTS

AI-Powered Sales Research & Email Agent – AI Project
2024 - Present

- Built a multi-agent workflow with three agents and four LLM models, including a final "judge" model to evaluate and select the best sales email draft.
- Automated email delivery by sending the winning draft directly to specified clients, highlighting lesson offerings and pricing from my English teaching business.
- Integrated LLM-based autoreplies to handle client responses, enabling two-way communication without manual intervention.
- Demonstrated advanced skills in LLM orchestration, agentic workflows, and applied AI automation, reducing manual outreach effort and increasing engagement.

AI-Powered Company Research & Analysis Agent – AI Project
2025 - Present

- Built an agentic AI workflow using CrewAI with specialized researcher and analyst agents to automate financial company research.
- Designed sequential tasks to gather news, analyze performance, and produce structured financial reports.
- Integrated Resend API to automatically deliver results via email in text, HTML, and Markdown attachment formats.
- Applied LLM orchestration, tool integration, and workflow automation, showcasing practical AI engineering for real-world business use cases.

Social Media Benchmarking Analysis – Data Science Project
2025 - Present

- Developed a TikTok Insights Scraper in Python using Selenium and WebDriver Manager to collect engagement data (likes, comments, shares, saves, hashtags) across competitor accounts.
- Engineered analytics modules to calculate view-adjusted engagement rates, posting frequency, hashtag efficiency, optimal posting windows, caption length correlation, and content category lift.
- Automated data export by generating one-row CSV summaries per profile and providing per-post engagement snapshots for deeper analysis.
- Benchmarked my company's social media performance against competitors, uncovering that vocabulary-focused content at optimal posting times boosted engagement and increased client interaction by 30%.

AI-Powered Deep Research Agent – AI Project

- Engineered a multi-agent research pipeline that plans searches, executes queries, summarizes results, and generates structured Markdown reports with iterative critique and revision.
- Deployed with Gradio UI to guide users through clarifying questions and research refinement, creating a researcher-like experience for improved result accuracy.
- Automated report delivery by formatting outputs into TXT/Markdown and sending them via the Resend API, enabling seamless email distribution to specified recipients.
- Demonstrated expertise in agentic AI workflows, multi-LLM orchestration, prompt engineering, and applied AI automation for end-to-end research generation.

Sickle Cell Image Classification – Deep Learning Project   2023 - 2024

- Preprocessed and curated a medical image dataset from Uganda, excluding unclear samples to improve training quality.
- Built and trained a Convolutional Neural Network (CNN) with Conv2D, MaxPooling2D, Dense, and Dropout layers using TensorFlow/Keras.
- Achieved 1.00 training accuracy and 0.96 validation accuracy over 30 epochs, demonstrating strong classification performance despite limited dataset size.
- Planned further improvements with data augmentation, early stopping, and dropout tuning to reduce overfitting and enhance generalization.

All American English Website Analytics – Web Project   2022 - Present

- Designed and deployed a full-stack learning platform using JavaScript, Bootstrap, HTML, CSS, and Excel for lesson and content management.
- Developed interactive vocabulary quizzes and flashcards, improving student engagement and learning outcomes.
- Built simple analytics tracking and reports to monitor learner activity, lesson completion, and engagement trends.
- Implemented data-driven improvements to course offerings, leading to a 25% increase in clients for the business.

TECHNICAL TOOLS & STACK

Languages & Data Analysis

- Python, R, SQL (PostgreSQL, MySQL), C++, JavaScript, Node.js, Pandas, NumPy, Matplotlib, Seaborn, Tensors

Machine Learning & AI

- Scikit-learn, TensorFlow, PyTorch, XGBoost, Gradient Boosting, Transfer Learning, CNNs, RNNs

LLM and AI Workflows

- GPT-4/5, Claude, Google Gemini, Ollama, DeepSeek, Groq, Hugging Face Transformers/Spaces, RAG, NLP (NLTK, spaCy, BERT), Prompt Engineering, LangChain, CrewAI, AutoGen (Microsoft), OpenAI SDK, Agentic AI Workflows

Cloud & Big Data

- Google Cloud, AWS, Vercel, Hadoop, MongoDB, ETL Pipelines

Visualization & Analytics

- Tableau, Power BI, Excel

Frameworks & Dev Tools

- Flask, Django, REST APIs, Bootstrap, HTML/CSS, Resend (email automation), Git, GitHub, VS Code, Cursor IDE, IntelliJ IDEA, PyCharm, Jupyter Notebook, MCP (Modal Context Protocol)

WORK EXPERIENCE

All American School of English – Data Scientist | Web Developer

01/2020 - Present   Warsaw, Poland

- Founded and developed a full-stack learning platform using JavaScript, Bootstrap, HTML, CSS, and Excel, featuring interactive vocabulary quizzes and flashcards to improve engagement and learning.
- Integrated the platform with TikTok and Instagram content, boosting visibility and driving a 25% increase in client engagement and retention.
- Delivered online Business English training to professional software developers at large companies in Poland, expanding the enterprise client base by 20% and increasing recurring revenue.

European League of Football – Data Analyst | Professional Athlete

01/2020 - Present   Berlin, Germany

- Analyzed game film data using statistical methods to identify opponent formations, play tendencies, and performance trends.
- Delivered actionable insights to coaching staff, enhancing game planning and strategy development, which improved team preparation and competitive performance.
- Helped increase defensive read accuracy by 15%, contributing to stronger in-game adjustments and improved win rates
- Also competed as a professional athlete in the European League of Football, applying the same discipline and analytical mindset on the field.

Georgetown Alumni Funds – Data Analyst | Student Caller

08/2017 - 12/2019   Washington, D.C.

- Tracked and updated daily fundraising results in Excel, maintaining 100% accuracy across alumni donation records and campaign progress.
- Managed high-volume inbound and outbound alumni calls, strengthening donor engagement and directly contributing to meeting annual fundraising targets.

Georgetown University - NCAA Division I American Football Player

07/2015 - 12/2019   Washington, D.C.

- Conducted 14+ hours of weekly performance data analysis on game film using statistical methods and visualization tools, generating insights that refined defensive strategies, identified opponent trends, and improved team performance by 15%.
- Analyzed fan and stakeholder engagement data, delivering insights that guided outreach and marketing initiatives, boosting community engagement and brand visibility by 30%.

EDUCATION

University of Phoenix - Master of Science, Data Science

01/2025 – *in progress, expected 2026*   Phoenix, AZ

University of Phoenix - Bachelor of Science, Computer Science

01/2020 - 12/2024   Phoenix, AZ

Georgetown University - Bachelor of Arts, History

07/2015 - 12/2019   Washington, D.C.

CERTIFICATIONS & IN-PROGRESS TRAINING

- **AI in Production: Gen AI and Agentic AI at Scale (2025) — Ed Donner — In progress,** ~50% Coverage: deploying LLMs and GenAI systems in production, building agentic workflows, scaling AI applications, prompt evaluation and optimization, safety and reliability, tool integration, and Python-based automation for AI pipelines.
- **The AI Engineer Course 2025 — 365 Careers — In progress,** ~65% Coverage: Python for AI/NLP, Transformers, LangChain apps, Hugging Face, API integrations.
- **PyTorch for Deep Learning Bootcamp (2025) — ZTM, Andrei Neagoie & Daniel Bourke — In progress**, ~20% Coverage: neural networks, computer vision, transfer learning, optimization, model deployment, and advanced PyTorch workflows for real-world deep learning applications.
- **Machine Learning, Data Science & AI Bootcamp (2025) — ZTM, Andrei Neagoie & Daniel Bourke Completed** Coverage: Python 3; NumPy; Pandas; Matplotlib; Seaborn; scikit-learn; TensorFlow 2; supervised and unsupervised learning; time series; feature engineering; model selection and evaluation; transfer learning; end-to-end ML workflow; portfolio projects.
- **DevOps: Beginners to Advanced with Projects (2025) — Imran Teli — In progress,** ~10% Coverage: CI/CD pipelines, Docker, Kubernetes, Jenkins, GitHub Actions, infrastructure as code (Terraform, Ansible), monitoring, cloud deployment strategies, and hands-on DevOps projects.
- **The Complete Web Development Bootcamp — App Brewery (Dr. Angela Yu) — Completed** Coverage: HTML; CSS; JavaScript; React; Node.js; Express; REST APIs; MongoDB; responsive design; full-stack CRUD apps; authentication and sessions; debugging and best practices; Git and deployment; portfolio projects.
- **Google Digital Marketing Certification — Google — Completed** Coverage: SEO; SEM; Google Ads; Google Analytics; campaign planning; keyword research; content strategy; social and email marketing; conversion tracking; A/B testing; privacy and compliance.

PROFESSIONAL DEVELOPMENT & INTERESTS

- Developing a growing passion in AI and machine learning, with complementary experience in data science and emerging technologies.
- Some background in web development, with additional international experience as a TESOL-certified English teacher and multilingual learner (Polish, German).
- Professional American football player in European leagues, bringing discipline, teamwork, and resilience into professional growth.