**MILLION KASSAYE**

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**OBJECTIVE:** AI/ML Engineer, AI Developer, AI Researcher with 8+ years of experience in designing, developing, and deploying scalable software and AI solutions. Strong expertise in **Python data science stack (Pandas, NumPy, Scikit-learn),** **Java, React, and cloud-native architectures** combined with hands-on experience in **Machine Learning, NLP, and MLOps pipelines**. Skilled in building production-grade systems across both enterprise and research environments.

**PROFILE SUMMARY:**

* 8+ years of professional experience in software engineering with strong backend, frontend, and AI expertise.
* Strong experience in developing standardized ML workflows and templates using **MLflow** and enabling rapid experimentation and deployment cycles.
* Strong experience in designing, building, and maintaining scalable, reusable, and reliable ML platforms and tooling that support the entire ML lifecycle.
* Highly proficient in the **Python** data science stack (Pandas, NumPy, Scikit-learn) for data analysis, feature engineering, and model development.
* Extensive work in **Java/J2EE, Spring Boot, and RESTful services**, with integration into relational and NoSQL databases.
* Expertise in **NLP, transformers (BERT, Hugging Face)**, and end-to-end **MLOps with Kubeflow & Vertex AI**.
* Cloud-native application development using **GCP and AWS**.
* Frontend development with **React, Redux, Angular, TypeScript, and modern UI frameworks**.
* Strong experience in **CI/CD, DevOps automation**, and implementing **scalable microservice architectures**.
* Proficient in **TDD, unit testing (JUnit, Mockito, Jasmine)**, and debugging enterprise-grade systems.

**TECHNICAL SKILLS:**

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| **Category** | **Skills** |
| AI / Machine Learning | BERT, Hugging Face Transformers, TensorFlow, PyTorch, NLTK, Scikit-learn, MLflow, Vertex AI, Kubeflow Pipelines, NLP, Deep Learning, Amazon Comprehend (AWS), Model Fine-Tuning, Hyperparameter Optimization |
| Front End | HTML5, CSS3, JavaScript (ES6+), React, React Hooks, Redux, Tailwind, Material UI, Stencil, Angular, AngularJS |
| Back End | FastAPI, Amazon Neptune, GraphQL, Java, Spring Boot, Spring MVC, Node.js, Express.js, RESTful APIs, Microservices, Hibernate, |
| Cloud & DevOps | AWS (S3, Lambda, EC2, EKS), GCP (Vertex AI, Kubeflow, BigQuery), Pivotal Cloud Foundry, Docker, Kubernetes, Jenkins, GitLab CI/CD |
| Databases | MySQL, Oracle, SQL Server, DB2, MongoDB, PostgreSQL |
| Testing & Tools | JUnit, Mockito, Jasmine, Jest, Mocha, Chai, Git, GitHub, GitLab, Bitbucket, NPM, VSCode, JIRA |
| Developer AI Tools | ChatGPT, Sonnet, GitHub Copilot, Anthropic Claude API, CodiumAI, Mintlify, Google ADK, LangChain, OWL, RDFS |

**PROFESSIONAL EXPERIENCE**

**HABESHA PROS**

Dallas, TX

**MACHINE LEARNING ENGINEER**SEP 2024- PRESENT

***Responsibilities:***

* Leading a research project titled “Amharic and Amharic-English Political Sentiment Analysis of YouTube Comments using Semantic Deep Learning”, focused on classifying sentiment in code-switched text (Amharic + English).
* Designed scalable data pipelines with **YouTube Data API v3**, including preprocessing, normalization, and cleaning using **NLTK**.
* Built and fine-tuned **BERT-based NLP models** with Hugging Face Transformers, comparing against hybrid models (BiLSTM with attention) for optimal performance.
* Implemented **Kubeflow Pipelines** on **Google Cloud Platform (GCP)** for end-to-end MLOps, leveraging **Vertex AI** for hyperparameter tuning and large-scale training.
* Conducted rigorous model evaluation using **F1-score** and **accuracy**, with experiment tracking in **MLflow** and visualization in **Matplotlib**.
* Developed production-grade workflows integrating **TensorFlow** and **Kubeflow** to ensure reproducibility and scalability.
* Architected **cloud-native ML systems** on GCP and optimized deployments for research and production environments.
* Mentored peers on **best practices in ML infrastructure** and cutting-edge **NLP techniques**, ensuring research translates into robust, production-ready systems.

**Environment:** Python, TensorFlow, PyTorch, Hugging Face, Kubeflow, Vertex AI, MLflow, NLTK, GCP, BigQuery, FAST API, Pandas, YouTube Data API, React.js, Vite.js

**HOMEDEPOT**

ATLANTA, GA

**SOFTWARE ENGINEER**MAY 2022- JULY 2024

***Responsibilities:***

* Developed scalable **React micro-frontends** (Redux, Tailwind, Stencil) for credit card management and account services, improving user experience across millions of customers.
* Designed and integrated **REST APIs with Spring Boot** to connect with Citi Bank systems, enabling seamless financial workflows.
* Built **financial service modules** including Prequal (credit eligibility) and account snapshot (balances, payments), ensuring accurate and reliable data integration.
* Implemented offer calculators and payment estimator features, enhancing cart and checkout functionality.
* Followed The Home Depot guidelines, specifications, tools, and code to create brand-consistent, accessible, and mobile-first customer experiences.
* Ensured high-quality releases with **Jest/Testing Library**, CI/CD via Jenkins, and agile collaboration with product teams.

**Environment:**Java/,JavaScript,Typescript,HTML,CSS,JSON,REACTJS,REDUX,SASS,GITLAB,JIRA, JENKINS

**INDEED**

SEATTLE, WA

**FRONT END DEVELOPER**SEP 2020- APR 2022

***Responsibilities:***

* Built internal platform **RAVEN** using React/Redux for email campaign management, adopted by multiple internal teams.
* Designed drag-and-drop interfaces and **AG Grid components**, boosting usability and data handling performance.
* Integrated **Spark Post API** to deliver and monitor bulk email campaigns, ensuring reliable communication across millions of users.
* Broke down large systems into **modular microservices**, improving maintainability and scalability.
* Applied **TDD and pair programming**, ensuring high test coverage and lean development practices.
* Used CSS Sass preprocessor and Bootstrap for styling components
* Research new technologies and implement them in the projects to continuously improve and

optimize software.

**Environment:**Java/J2EE,JavaScript,Typescript,HTML,CSS,JSON,REACTJS, REDUX,SASS,GITLAB,JIRA, JENKINS

**JCPenney**

PLANO, TX

**FULL STACK DEVELOPER**MAY 2018 – AUG 2020

***Responsibilities:***

* Developed and documented clean and reusable code using HTML5, CSS, Bootstrap, Node.js, React.js
* Built highly engaging and interactive interfaces to achieve great user experience.
* Utilize CI/CD Pipeline of tools (static analysis, unit tests, code coverage, and software integration tests) to ensure coding/security standards are met for all implementations.
* Broke down the large functionalities to microservice for quick turnaround and less impact.
* Developed backend services using Spring boot framework front end using Angular as well as Angular JS frameworks.
* Work in Extreme Programming flavor of agile methodology
* Practiced Pair Programming and Test-Driven Development to implement solutions in the leanest possible way.
* Implemented coding standards and refactoring at every stage to provide flawless code.
* Implemented good unit test cases using JUnit, Mockito, and Jasmine

**Environment:** Java/J2EE, JavaScript, Typescript, HTML, CSS, JSON, Spring Boot, Spring MVC, Angular, JUnit, Mockito, Jasmine

**EDUCATION**

B.Sc. in Computer Science | Addis Ababa UNIVERSITY Oct 2010- JAN 2015

* Programming fundamentals, Data structures, Algorithms, Software engineering, Advance database

Certificate, Udemy | Online June 2024 – September 2024

* Google Certified Machine Learning Engineer

Certificate, Engineering | Thankful | Online 2020-2021

* Full-time Software Engineering program focused on building frontend and backend skills.