Abba Otieno Ndomo

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EDUCATION

Georgia Institute of Technology *Aug 2023 – May 2027*

BS, Industrial & Systems Engineering, Computer Science

Relevant Coursework: Honors Linear Algebra w/ Abstract Vector Spaces, Intro to Real Analysis & Abstract Algebra, Discrete Mathematics, Graph Theory, Data Structures & Algorithms, Probability Theory, Accounting I, Statistical Methods

AWARDS:

- **Dean's List**, Georgia Institute of Technology

- **Peer Inspiration Award**, Georgia Tech Industrial and Systems Engineering Center of Academic Success (**ISYExCASE**)

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, HTML/CSS, SQL, C++

- **Frameworks & Tools:** Django, REST APIs, Git, PyTest, Bootstrap, Node.js (beginner), AWS (basic exposure)

- **Concepts:** Microservices, Unit Testing, OOP, Feature Engineering, Regression Modeling, Agile Sprints, DevOps Concepts

- **Cloud:** Familiarity with AWS, interest in GCP, REST integration readiness

EXPERIENCE

Software Engineering Intern – KPMG *Mumbai, India — Jun 2024 – Aug 2024*

- Engineered RESTful Python microservices for RAG systems; increased retrieval accuracy by 75% using SQL + PDF parsing.

- Built data pipelines for ML training; benchmarked multiple LLMs using precision/recall/F1 metrics.

- Prototyped PDF scoring services in C# (.NET 6); explored cross-system DevOps compatibility.

- Developed and executed unit/integration tests (99% pass rate) using PyTest in CI-ready workflows.

PROJECTS

Travel Risk Scoring Web Platform *Python, Django, REST, HTML/CSS, Bootstrap — Jan 2024 – Present*

- Built full-stack Django application for logging travel data and computing risk scores.

- Architected backend with class-based views, modular REST endpoints, and Admin interface.

- Designed for future cloud deployment and API integration with GCP/AWS compatibility in mind.

US Flight Delay Prediction Model *Python, Scikit-learn, Pandas — Jan 2024 – May 2024*

- Created ML model (adj. $R^2 = 0.763$) predicting flight delays; used ANOVA & chi-square for variance validation.

- Developed KNN classifier (76% accuracy) with cross-validation, feature scaling, and tuning.

iRobot Create Navigation (Robotics Engineering) *Python, iRobotCreate, Agile Workflow — Oct 2023 – Dec 2023*

- Led 3-person team using sensor fusion and Python OOP to achieve 100% success in collision avoidance tests.

- Delivered weekly Agile sprints with Git version control and pull request reviews.

INVOLVEMENT & LEADERSHIP

Quantitative Analyst – GTSF Investment Committee (Quant Sector) *Jan 2025 – Present*

- Developed macro-driven fund allocation strategy using time-series models (ARIMAX, MS-regression).

- Conducted valuation of Visa Inc using DCF model and sensitivity analysis (33% implied upside).

Committee Member – ISYE Diversity, Equity & Inclusion Committee *Aug 2024 – Present*

- Evaluated DEI commitments in interviews for academic leadership positions.

SKILLS

- **Programming Languages:** Java, Python, SQL, HTML/CSS, C++

- **Technical Competencies:** Algorithms, Data Structures, OOP Principles, Microservices, RESTful APIs, Version Control (Git), Unit Testing, Data Preprocessing, Feature Engineering