# **Abenaya Raja**

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# **Objective:**

Experienced IT professional with over 9 years of hands-on expertise in software development, data analysis, and machine learning engineering. Seeking a senior role in Python development and AWS solution architecture, leveraging extensive experience in cloud computing, DevOps practices, and scalable application design to drive innovation and business success.

# **Profile:**

Seasoned Python Developer with a comprehensive understanding of Data Science and Business Intelligence principles. Proficient in building robust APIs, microservices, and deploying machine learning models. Skilled in frameworks such as Flask, Django, and FastAPI. Adept at leveraging AWS services for scalable and cost-effective solutions.

# **Skills:**

- Programming Languages: Proficient in Python, with experience in C, C++, C#, Java.

- Web Development Frameworks: Expertise in Flask, Django, Dotnet, FastAPI, Bootstrap.

- Machine Learning: Strong knowledge of TensorFlow, Scikit-learn, Keras, and PyTorch.

- Data Visualization Tools: Experienced with Power BI, Power Apps, Power Automate, Matplotlib, Seaborn.

- AWS Services: Extensive experience with EC2, S3, Lambda, IAM, CloudFormation.

- Database Languages: Proficient in SQL Server, MongoDB, and Impala Query Engine.

- Other Technologies: Skilled in OpenCV, NumPy, Pandas, Spacy, Pillow, Scipy, Tesseract OCR, RabbitMQ.

# **Work Experience:**

DataTerrain

Senior Software Engineer - Machine Learning

- Led multiple machine learning projects, leveraging Python, TensorFlow, and AWS services to develop scalable solutions.

- Designed and implemented end-to-end machine learning pipelines using AWS SageMaker, EC2, S3, and Lambda.

- Developed interactive data visualization dashboards using Microsoft Power Platform for actionable insights.

- Collaborated with cross-functional teams to integrate machine learning models into production systems, ensuring high performance and reliability.

Mastek

Senior Python / Dash Developer

* Proficient in utilizing the Dash framework for web application development in Python. Demonstrated expertise in creating interactive dashboards from scratch to efficiently manage and visualize data.

Primus Global Technologies - HP Inc.

Python Developer

- Developed SharePoint solutions to streamline business processes and improve collaboration among teams.

- Designed and deployed applications for invoice processing and Named Entity Recognition (NER) using Python and machine learning techniques.

- Managed server infrastructure and implemented PowerApps and Power Automate workflows for automation.

Standard Chartered Global Business Services Private Limited

Data Analyst / Officer

- Conducted thorough data validation and processing for financial products, ensuring compliance with regulatory standards.

- Orchestrated job scheduling and managed deployment processes for trade booking operations, optimizing efficiency.

- Created and presented weekly dashboards using SQL queries to track operational performance and identify areas for improvement.

Cognizant Technology Solutions

Programmer Analyst

- Maintained and optimized mainframe systems, ensuring smooth batch processing and transactional operations.

- Documented incident reports and performed defect trend analysis to drive continuous improvement in system performance and reliability.

# **Notable Ventures**

1. **Talent Acquisition Software Development – DataTerrain**

* Developed a Django web application incorporating machine learning and recommendation systems for talent acquisition purposes.
* Utilized AWS cloud services for deployment, ensuring scalability and reliability of the application.
* Improved the efficiency and effectiveness of talent acquisition processes through advanced data analysis and personalized recommendations.

**2.** **Landing AI American Girl Brnd - Mastek**

- Developed a Plotly Dash application with MySQL backend for user management and data visualization.

- Integrated machine learning models for predictive analytics using Flask and Microsoft ML.

- Implemented CI/CD pipelines with Azure DevOps for automated deployment.

**3.** **RevoR - Microsoft**

- Upgraded Python and R runtimes, resolving compatibility issues and enhancing performance.

- Debugged and optimized stored procedures in SQL Server for efficient data processing.

- Managed project repositories and version control using Git and Azure DevOps.

**4.** **DataMap - HPE**

- Designed and developed a full-stack web application using Django and GraphQL for seamless data exchange.

- Containerized the application using Docker and orchestrated deployment with Kubernetes.

- Implemented OAuth2 authentication and role-based access control (RBAC) for enhanced security.

**5.** **Intelligent Invoice Extractor - HP Inc.**

- Developed a Flask-based web application for document processing, including OCR and NER.

- Automated keyword extraction from PDF/Word documents using OpenCV and NLP techniques.

- Integrated with SQL Server for data storage and retrieval, ensuring scalability and performance.

**6.** **Microservices for Message Broker - HP Inc.**

- Designed and implemented a message broker using RabbitMQ for asynchronous communication between microservices.

- Developed Python APIs for message publishing and consumption, ensuring reliable message delivery.

- Utilized C# .NET for building microservices and integrating with existing systems.

**7.** **Supply Chain Automation - HP Inc.**

- Architected and developed a dashboard for real-time monitoring of supply chain processes.

- Leveraged Power BI, Power Apps, and Microsoft Flows for data visualization and workflow automation.

- Integrated with SharePoint for document management and collaboration among stakeholders.

**8.** **Banking Process Automation - Standard Chartered Global Business Solutions**

- Automated complex business processes using PEGA/OpenSpan and Dotnet technologies.

- Implemented regex-based data validation and processing logic for live trade booking systems.

- Designed and maintained queueing mechanisms for efficient task management and execution.

**9.** **Server Management for Insurance Claims – Cognizant Technology Solutions**

* Developed a mainframe application adhering to project standards and procedures, aimed at processing batch jobs for various categories of customers.
* Implemented reusable modules to ensure secure digital transactions and facilitate desired services.
* Conducted bug fixing and accuracy checks on existing codebase.
* Monitored batch jobs and results within specified service level agreements.
* Managed workload to the mainframe server, optimizing resource utilization.
* Prepared incident reports, defect discovery analyses, defect trend analyses, and delivery reports for organizational review.

# **Education:**

- Bachelor of Technology in Information Technology, [University Name], 2014 (CGPA: 7.49)

- Higher Secondary, State Board, 2010 (Percentage: 86.16)

- SSLC, Matriculation, 2008 (Percentage: 91.20)

# **Declaration:**

I hereby declare that the above furnished information is correct and complete to the best of my knowledge.

Thanks & Regards,

Abenaya Raja