

# Dontay Mobley

Sr. Python Engineer | Sr. Full Stack Engineer | Sr. Backend Developer

Email: [dontay.mobley.7p@outlook.com](mailto:dontay.mobley.7p@outlook.com)

Contact Number: +1717 456 0046

Location: Philadelphia, PA

Work Authorization: US citizen

## PROFESSIONAL SUMMARY

- Over 10 years of experience in Design, Development and Deployment of Python applications.
- Developed backend modules using Python on **Django**, **Flask** Web Framework using **ORM** models.
- Developed **ETL** jobs in **Python** to extract and load data into various databases.
- Used Test driven approach for developing the application and Implemented the unit tests using **Python** Unit test framework.
- Expertise in working with **Perl** and Shell scripting for designing automation framework.
- Good experience in developing web applications and implementing Model View Control (**MVC**) architecture using server - side applications like **Django**, **Flask**.
- Managed and reviewed Hadoop log file and worked in analysing SQL scripts and designed the solution for the process using **PySpark**.
- Extensive experience working in SaaS, IaaS.
- Developed Dynamic and static queries for **Microsoft SQL server**, worked on complex inner and outer joins.
- Analyzed and improved the performance of various queries and stored procedures.
- Expertise in configuration, logging and exceptional handling.
- Experience in agile environment using a CI/CD model methodology.
- Designed front end using HTML, Bootstrap, **Node JS**, CSS, and JavaScript.
- Experience in Core **Java** and Object Oriented Programming using concepts like Multi-Threading, Exception Handling and Collections
- Worked on client-server architecture based enterprise application software in Python, Java.
- Developed the required XML Schema documents and implemented the framework for parsing XML documents.
- Worked on various applications using python integrated IDEs Eclipse, **PyCharm**, NetBeans and Eclipse.
- Used various debuggers like pdb, gdb and static analysis tools like pylint, Coverity.
- Involved in the Complete Software development life cycle (**SDLC**) to develop the application.
- Worked on projects designed with **agile**/scrum and waterfall methodologies, high-quality deliverables delivered on-time.

# TECHNICAL SKILLS

- Programming Languages: Python, C, C++, Java Shell scripting, Perl
- Databases: MySQL, Oracle, Mongo DB, Redis, Cassandra
- Web Technologies: CSS, HTML5, JS, JQuery, REST, JSON, Django, Flask, MVC, React, Angular, Vue, Node.js
- Operating Systems: Windows, Linux, Solaris, RHEL.
- Tools & Servers.: Jenkins, WebSphere, Apache Active MQ, pylint, coverity, pdb, gdb,
- Python Libraries: Scikit-learn, Numpy, Scipy, Matplotlib, Pandas, Regression and Classification Algorithms
- Database: PostgreSQL, MySQL, MongoDB, DynamoDB, Oracle
- Serverless: AWS Lambda, Azure Functions, Google Cloud Functions
- Devops: Docker, Kubernetes, Azure Devops, Docker Swarm, CI/CD, Terraform, Helm

## PROFESSIONAL EXPERIENCE

**Microsoft, Philadelphia, PA**

Jun 2021 - Present

**Senior Python Full Stack Engineer**

### Responsibilities:

- Understand the user requirements and breakdown the tasks accordingly to implement in timely manner.
- Utilized **Django** Web Framework for creating web applications utilizing model view control engineering
- Build the REST API's using **Django** and integrate with the **Angular 14** on **AWS** service.
- Experienced working with Django and **PostgreSQL**.
- Worked with Django user management modules to create authenticated application
- Experienced working with GIT, version control to commit the changes and follow the workflow.
- Wrote Python scripts to parse JSON documents and load the data in PostgreSQL database.
- Worked on the backend application by using **Django** Web Framework to create API's.
- Knowledge in integrating the backend and front, sorting the issues and bugs during integration.
- Worked with **JIRA** to manage the issues, track the bugs and prioritize the issues.
- Used Django API's to access the database
- Experience in working with **TDD/BDD** environments and Scrum development lifecycle.
- Worked with IDE's and also testing the API calls using postman before integrating with the front end.
- Experienced in documenting the API's using tools like swagger.
- Good knowledge of scrum and **agile** methodologies.

- Worked on communication platforms like **Slack**, Microsoft **Teams** to share files and communicate among the team.

## Adobe, Columbia, SC

### Senior Software Engineer

Apr 2016 – Apr 2021

#### Responsibilities:

- Designed and developed **Django** REST Services with ORM models along with templates.
- Implemented Business logic, data exchange, and XML processing and graph creation using Python.
- Designed and Developed **Oracle** Stored Procedures and **UNIX Shell Scripts** for Data Import/Export and Conversions
- Developed views and templates with **Python** and **Django's** view controller and templating language to created user-friendly website interface.
- Worked on **React/Next.js** framework for frontend development
- Created unit test/regression test framework and scripts for testing various modules.
- Extensively used Python requests urllib and urllib2 module to call web services.
- Used NumPy for numerical analysis & matplotlib libraries part of sci-py kit to do data analysis and plotting.
- Developed user interfaces using CSS, HTML, JavaScript, JQuery, JSON, bootstrap, Node.js, Angular.js.
- Experienced in building a Command line tool to interact with RESTful API using in Golang
- Used **Go** Programming Language (**GoLang**) and Scala in the development of the application.
- Developed scripts in **Python** and Excel VBA to automate the data analysis, generating statistics isolating trends in memory failures
- Analysed data using Excel VBA scripts
- Worked with Perl, shell scripting (bash) to automate administration tasks.
- Designed, developed, implemented, and maintained solutions for using **Docker**, Jenkins, GIT, Puppet for micro services and continuous deployment.
- Expertise python scripting with focus on **DevOps** tools, CI/CD and AWS Cloud Architecture.
- A Django dashboard with custom look and feel for end user has been created after a careful study of the Django admin site and dashboard.
- Developing software in **Python**, C# and web development frameworks such as Flask
- Developed test scripts in **Python** that are used to test embedded systems via their debug UART port.
- Used SOAP and Restful API for information extraction.
- Developed Views and Templates with Python and to create a user-friendly website interface Django's view controller and template.
- Designed and developed data management system using NoSQL, Mongo DB, and MySQL.
- Used Unit Test library for testing python and other programs.
- Developed Network modules, Socket programming and Web server hosting capabilities of Python for some applications (ex. IoT devices).

- Resolved ongoing problems and accurately documented progress of Python project.
- JIRA was used for agile/scrum process tracking and tracking the status of development.
- Different testing methodologies like unit testing, Integration testing, web application testing, selenium testing were performed.

**Mphasis, San Ramon, CA**  
**Full Stack Developer**

Nov 2011 – Feb 2016

**Responsibilities:**

- Worked on creating responsive website for smart devices using **Responsive design** and **media queries**.
- Utilized **MVC, Prototype and Singleton JavaScript patterns** to develop application Coded front end interface with Bootstrap, ReactJS, CSS, JS and HTML5.
- Developed a user-friendly interface to seamlessly combine the new module with the existing login system by using **ReactJS**.
- Used **ReactJS** framework to bind HTML (views) to JavaScript objects (models).
- Employed **C# and JavaScript, XML** to create automatic documentation generator tools, facilitating the validation, rating, and updating of documentation for customer integration with third-party services.
- Developed robust integration tests using **C#** and **NUnit** containers to ensure accurate and reliable documentation examples, ensuring optimal integration with third-party services.
- Developed robust and user-friendly applications using **.NET Web** and **Windows Forms**.
- Generated **Python Django** forms to record data of online users and used **PyTest** for writing test cases.
- Wrote Automation test cases using **Selenium** WebDriver using **Python** API.
- Worked with CSS Icons, CSS Pseudo-class, CSS Pseudo-element, CSS Image Sprites, CSS background and CSS3 Shadows to give some additional effects.
- Worked on Responsive Web Design using **Bootstrap** Grids system and CSS3 Media Query.
- Developed experience using jQuery, AJAX, JSON, XML to achieve data parsing between pages.
- Good knowledge of **debugging** JavaScript and html code with Firefox Firebug and Google chrome JavaScript debugger.
- Developed and maintained automated **CI/CD pipelines** for code development using **Jenkins**.
- Used **AJAX** and **jQuery** for service calls on pages to interact with the server for information.
- Analyzed and gathered business requirements specifications by interacting with client and understanding business requirement specification documents.
- Designed Data Quality Framework to perform schema validation and data profiling on Spark (Pyspark)
- Implemented web applications in **Flask** frame works following MVC architecture.
- Used Angular 8 as the development framework to build a single-page application.
- Used Celery with **RabbitMQ**, MySQL, Django, and Flask to create a distributed worker framework.
- Implemented SQL Alchemy which is a python library for complete access over SQL.
- Developing applications using RESTFUL architecture using **Node.js** and PHP as backend languages.

- Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using **Flask**, SQLAlchemy and PostgreSQL.
- Implemented JSON Schema for validating the structure of JSON data.
- Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
- Created Automation test framework using Selenium.
- Implemented monitoring and established best practices around using elastic search.
- Followed **AGILE** development methodology to develop the application.
- Used Test driven approach (**TDD**) for developing services required for the application.

## EDUCATION

**University of South Carolina**  
**Bachelor's Degree in Computer Science**

2007 – 2011