Yohannes Negussie

Sr.Python Developer

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PROFESSIONAL SUMMARY:

* Over 9 years of Full Stack Python Developer with hands-on experience in designing, developing, and deploying end-to-end web applications.
* Extensive expertise in utilizing popular Python frameworks such as Django and Flask to accelerate development cycles, manage databases, and create RESTful APIs, streamlining the application architecture.
* Proficient in frontend technologies such as HTML, CSS, and JavaScript, with a strong focus on creating responsive and user-friendly interfaces that provide exceptional user experiences.
* Adept in utilizing the power of Python to build robust and efficient backend systems, implement data processing pipelines, and develop complex algorithms to drive application functionality.
* Experience in integrating cloud services, particularly AWS and Azure, to deploy applications with scalability, reliability, and security in mind. Proficient in managing cloud-based infrastructure.
* Experienced in Object-Oriented design and coding.
* Good knowledge of various Design Patterns, Multi-threading, Collections and UML concepts by usage in python and java.
* Worked on front end frame works like Bootstrap for responsive web pages.
* Worked on python packages like NumPy, SciPy, Matplotlib, Beautiful Soup, Urllib2, Pandas and CSV.
* Profound understanding of database management, including designing schemas, optimizing queries, and ensuring data integrity using relational databases like MySQL, PostgreSQL, and NoSQL databases like MongoDB.
* Hands-on experience in building web and enterprise applications in various domains like Health, Banking/Financial Services, Insurance, Public Sector, and Software Service verticals.
* Proven ability in building e-commerce platforms, integrating payment gateways, managing product catalogs, and optimizing checkout processes for a seamless customer experience.
* Developed ETL code using Oracle10.2.1, PL/SQL stored procedures and functions to filter and migrate an entire operating company Data Warehouse Over tables of data were migrated include Partitioned Tables as large as 50 Gigabytes.
* Experience in working on Application Servers like WebSphere, WebLogic, Tomcat, Web Servers like Apache Server, NGINX and Integrated Development Environments like PyCharm, Eclipse, MyEclipse, JDeveloper and RAD.
* Proficient in using editors Eclipse, PyCharm, PyScripter, Notepad++ and Sublime Text while developing different applications.
* Proficient in designing and implementing microservices-based architectures, leveraging tools like Docker and Kubernetes to create scalable and maintainable applications.
* Proficient in integrating third-party APIs and services, such as social media authentication, payment gateways, and geolocation services, enhancing application capabilities.
* Exposure to integrating machine learning models into applications, utilizing frameworks like TensorFlow or scikit-learn to provide intelligent features and insights.
* Familiarity with DevOps practices, including continuous integration and continuous deployment (CI/CD) pipelines, automating deployment workflows, and managing infrastructure as code.
* Demonstrated ability to work in Agile environments, participating in daily stand-ups, sprint planning, and retrospectives, ensuring smooth project management and timely deliverables.
* Committed to writing clean, maintainable, and efficient code, implementing automated testing and continuous integration practices to ensure software quality.

TECHNICAL SKILLS:

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| --- | --- |
| Programming Languages | C, Python, Django, Java, J2EE, SQL, PL/SQL, Java Script libraries, AngularJs4, Backbone Js. |
| Frameworks | Django, Flask, Pyramid, PyJamas, AngularJs4, Spring, Hibernate. |
| Web Technologies & Cloud | HTML/HTML5, CSS/CSS3, BOOTSTRAP, XML, Adobe CQ5, Amazon Webservices like EC2, S3, ELB, EBS, PyUnit; Azure. |
| Scripting Languages | HTML, HTML5, XHTML, DHTML, JavaScript, CSS, DOM  Scripting, XML, AJAX, JSON. |
| Python Libraries | NumPy, SciPy, Matplotlib, Urllib2, Pandas, CSV. |
| Java J2EE Technologies | Java, JDBC, Servlets, JSP, Struts, JSTL, XML, Spring, Hibernate. |
| Database | Oracle 8i/9i/11g, MySQL, SQLite, Mango DB. |
| Operating Systems | Windows, Python, SQLite Linux, MAC. |
| IDE | Eclipse, WebStorm, PyCharm, Pystudio, Pyscripter, Dream. |
| Web Server: | Apache Tomcat, Web logic, WebSphere, JBoss, HTTP Server. |
| Testing Tools | PyUnit, JUnit, JIRA. |
| Version Control | Git and SVN. |

Professional Experience

Yale University, New Haven, CT Apr 2021 – Till Date

Lead Python Developer

Yale University is a [private](https://en.wikipedia.org/wiki/Private_university) [Ivy League](https://en.wikipedia.org/wiki/Ivy_League) [research university](https://en.wikipedia.org/wiki/Research_university) in [New Haven, Connecticut](https://en.wikipedia.org/wiki/New_Haven,_Connecticut). Founded in 1701, it is the [third-oldest institution](https://en.wikipedia.org/wiki/List_of_Colonial_Colleges) of [higher education](https://en.wikipedia.org/wiki/Higher_education) in the [United States](https://en.wikipedia.org/wiki/United_States) and one of the nine [Colonial Colleges](https://en.wikipedia.org/wiki/Colonial_Colleges) chartered before the [American Revolution](https://en.wikipedia.org/wiki/American_Revolution).

Responsibilities:

* Lead a team of 5 developers in designing and developing a comprehensive e-commerce platform, resulting in a 30% increase in online sales.
* Designed and implemented RESTful APIs using Django Rest Framework, facilitating smooth communication between frontend and backend.
* Developed and maintained a design system using React components, improving design consistency and streamlining the development of new features.
* Integrated payment gateways and ensured PCI compliance, enhancing secure online transactions for customers.
* Developed a real-time inventory management system, reducing stock discrepancies by 20% through efficient data synchronization.
* For the development of the user interface of the website used HTML, CSS, and JavaScript.
* Experience in developing views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Implemented Docker containers and Kubernetes orchestration, optimizing application scalability and deployment processes.
* Designed and developed a RESTful API layer using Django Rest Framework, driving a 40% improvement in frontend-backend communication efficiency.
* Spearheaded the migration of a monolithic application to a modular microservices structure, resulting in improved maintainability and easier feature additions.
* Orchestrated the seamless migration of a complex application to AWS cloud infrastructure, leveraging Amazon EC2 instances, Auto Scaling groups, and Elastic Load Balancing to ensure high availability and fault tolerance.
* Configured monitoring and alerting using Amazon CloudWatch, enabling proactive identification and resolution of performance bottlenecks and anomalies.
* Collaborated with DevOps team to establish a continuous integration and continuous deployment (CI/CD) pipeline using AWS Code Pipeline, automating the deployment process and reducing deployment time by 50%.
* Introduced unit testing and integration testing practices, increasing test coverage to 85% and reducing post-release bug reports by 25%.
* Collaborated closely with UI/UX designers to ensure consistent branding and user experience, resulting in a 15% decrease in bounce rates and improved user engagement.
* Implemented real-time monitoring and alerting using tools like Prometheus and Grafana, proactively addressing performance bottlenecks and ensuring high application availability.
* Have work knowledge on JIRA (Agile) for the bug tracking of the project.
* Worked on deployment on AWS EC2 instance with Postgres RDS and S3 file storage.
* Used Django-celery with the help of RabbitMQ message broker for large processing.
* Experience with Streaming platforms like Apache Kafka.
* Services using SOAP for sending and getting data from the external interface in the XML format.
* Designed the front-end web pages using HTML, JavaScript, Angular JS, jQuery and AJAX. Used CSS for better appearance.
* Writing templates for front end pages where we include HTML pages and JavaScript files.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connectors and MySQL package.
* Worked on migrating data to Amazons AWS. Used AWS products like EC2, RDS, Log Monitor, Lambda, REST API Gateway etc.
* Wrote modules in Python to connect to MongoDB with PyMongo and doing CRUD operations with MongoDB.
* Used Git and JIRA for code submissions and review process.
* Responsible for debugging the project monitored on JIRA(Agile)
* Implemented task object to interface with data feed framework and invoke database message service setup and update functionality.

Environment: Python X, Django, Couchbase Python SDK, PyQt, HTML, XHTML, JavaScript, Angular JS4, jQuery, CSS, AWS, AJAX, ITP, MySQL, XML, Git (Cygwin32), ADB, Logic Analyzer, Apache Webserver.

American Express, Phoenix, AZ Feb 2019 – Mar 2021

Sr. Python Developer

The American Express Company, also known as Amex, is an American [multinational](https://en.wikipedia.org/wiki/Multinational_corporation) [financial services](https://en.wikipedia.org/wiki/Financial_services) corporation headquartered in [Three World Financial Center](https://en.wikipedia.org/wiki/Three_World_Financial_Center) in [New York City](https://en.wikipedia.org/wiki/New_York_City). The company was founded in 1850 and is one of the 30 components of the [Dow Jones Industrial Average](https://en.wikipedia.org/wiki/Dow_Jones_Industrial_Average). The company is best known for its [charge card](https://en.wikipedia.org/wiki/Charge_card), [credit card](https://en.wikipedia.org/wiki/Credit_card), and [traveler's cheque](https://en.wikipedia.org/wiki/Traveler%27s_cheque) businesses.

Responsibilities:

* Developed multiple end-to-end web applications, from initial architecture design to deployment and maintenance, using Python for backend and modern frontend frameworks.
* Created RESTful APIs and integrated them with frontend components, ensuring seamless communication and a smooth user experience.
* Implemented WebSocket functionality to enable real-time updates for collaborative applications, enhancing user engagement.
* Utilized Django and Flask for backend development, implementing authentication, authorization, and database integration.
* Designed and maintained database schemas using PostgreSQL, ensuring efficient data storage and retrieval.
* Leveraged frontend frameworks such as React and Vue.js to create dynamic and responsive user interfaces.
* Collaborated closely with UI/UX designers to translate wireframes and mockups into interactive and visually appealing frontend components.
* Implemented responsive design principles to ensure optimal user experiences across different devices and screen sizes.
* Profiled and optimized database queries, resulting in a 40% reduction in page load times and improved overall application performance.
* Employed frontend optimization techniques, including lazy loading and code splitting, to minimize initial page load times.
* Designed serverless applications using AWS Lambda, API Gateway, and Amazon DynamoDB.
* Automated build, test, and deployment pipelines using AWS Code Pipeline and AWS Code Build.
* Designed data processing pipelines using AWS Glue for ETL (Extract, Transform, Load) jobs.
* Managed version control using Git, collaborating with other developers to ensure clean and efficient code merging.
* Implemented continuous integration and continuous deployment (CI/CD) pipelines, automating testing and deployment processes.
* Implemented unit tests, integration tests, and end-to-end tests using testing frameworks like pytest and Jest.
* Worked closely with product managers, QA engineers, and DevOps teams to define project requirements, plan releases, and resolve issues.
* Interacted directly with clients to gather requirements, provide progress updates, and offer technical insights to guide decision-making.
* Diagnosed and resolved complex technical issues, utilizing strong debugging skills and collaborating with cross-functional teams to find solutions.

Environment: Python 3.2, Django, HTML5/CSS, MS SQL Server 2013, AWS, MySQL, JavaScript, Eclipse, Linux, Shell Scripting, PyCharm, Urllib, jQuery, GitHub, Angular.JS, Jira

Kinder Morgan, Houston, TX July 2017 – Jan 2019

Python Developer

Kinder Morgan, Inc. is one of the largest [energy infrastructure](https://en.wikipedia.org/wiki/Energy_development) [companies](https://en.wikipedia.org/wiki/Energy_company) in North America. The company specializes in owning and controlling [oil](https://en.wikipedia.org/wiki/Oil_pipeline) and [gas pipelines](https://en.wikipedia.org/wiki/Gas_pipeline) and terminals.. The project aims at implementing a Visualization Web Framework with a collection of integrated web components that act as a presentation layer for an Enterprise Tableau reporting.

Responsibilities:

* Designed and developed the UI of the website using HTML, AJAX, CSS and JavaScript.
* Used Django Database API's to access database objects.
* Design, develop, test, deploy and maintain the website.
* Wrote python scripts to parse XML documents and load the data in database.
* Rewrite existing Python/Django modules to deliver certain format of data.
* Designed and developed data management system using MySQL.
* Handled all the client-side validation using JavaScript.
* Worked extensively with Bootstrap, JavaScript, and jQuery to optimize the user experience.
* Used Selenium Library to write fully functioning test automation process that allowed the simulation of submitting different we request from multiple browser to web application.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Used jQuery for all client-side JavaScript manipulation.
* Created unit test/regression test framework for working/new code using Subversion control tool to coordinate team-development.
* Built development environment with JIRA, Stash/Git.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Responsible for debugging and troubleshooting the web application.
* Created data access using SQL and PL/SQL stored procedures.
* Performed Unit/System test.
* Written many programs to parse excel file and process many user data with data validations.

Environment: Python 2.6, SciPy, Pandas, Bugzilla, SVN, C++, Java, jQuery, MS SQL, Visual Basic, Linux, Eclipse, Java Script, XML, JASPER, PL/SQL, Bootstrap, Oracle 9i, Shell Scripting, HTML5/CSS, Apache.

Neiman Marcus, Irving, TX Nov 2015 – Jun 2017

Python Developer

Neiman Marcus Group, Inc., originally Neiman-Marcus, is an American chain of [luxury](https://en.wikipedia.org/wiki/Luxury_goods) [department stores](https://en.wikipedia.org/wiki/Department_store) owned by the Neiman Marcus Group, headquartered in [Dallas](https://en.wikipedia.org/wiki/Dallas,_Texas), [Texas](https://en.wikipedia.org/wiki/Texas). The company also owns the [Bergdorf Goodman](https://en.wikipedia.org/wiki/Bergdorf_Goodman) department stores and operates a direct marketing division, Neiman Marcus Direct, which operates catalog and online operations under the Horchow, Neiman Marcus, and Bergdorf Goodman names.

Responsibilities:

* Used Python, Django and Zope frameworks to develop applications.
* Implemented business logic using Python 2.7.
* Used HTML, CSS, JavaScript and jQuery and Implemented AJAX for dynamic functionality of a webpages for front end applications.
* Worked on front end frame works like Bootstrap for responsive webpages.
* Managed large datasets using Pandas data frames and MySQL.
* Developed and executed various MySQL database queries from python using Python-MySQL connector and MySQL database package.
* Implemented SQL Alchemy which is a python ORM library for complete access over SQL.
* Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for Oracle Database.
* Fetched twitter feeds for certain important keywords using python-twitter library.
* Used Python library Beautiful Soup for web scrapping.
* Worked on Python OpenStack APIs and used NumPy for Numerical analysis.
* Used AJAX and jQuery for transmitting JSON data objects between frontend and controllers.
* Experience in designing and managing API system deployment using fast http server and Amazon AWS architecture.
* Various static/media files along with database were hosted into Amazon cloud and support for Amazon AWS S3 and RDS was added.
* Implemented monitoring and established best practices around using elastic search.
* Install and configuring monitoring scripts for AWS EC2 instances.
* Worked with the design team for project structure.
* Created a Git repository and added the project to GitHub.
* Wrote Python scripts to parse XML and JSON documents and load the data in database.
* All projects adhered to agile principles to deliver commitments, meet acceptance criteria and ensure fast releases.
* Handled all the client-side validation using JavaScript.

Environment: Linux and Windows, Python/Django, Python/Zope, HTML, JavaScript, CSS, jQuery, AJAX and BOOTSTRAP, REST, MySQL, Elastic Search, SQL, Apache, Ubuntu.

Turner Atlanta, GA Apr 2014 – Oct 2015

Web Developer

Responsibilities:

* Use-Case Diagrams, Class Diagrams, and Object Diagrams using UML Rational Rose were designed and developed for OOA/OOD techniques.
* Components using Java J2EE were designed and developed.
* UI using HTML CSS and JavaScript's was created.
* To implement Business Logic Servlets and Beans were created.
* For parsing the data to Oracle Database SAX/DOM Parser was used.
* Backend data access modules using PL/SQL stored procedures and Oracle were designed and created.
* JDBC and PL/SQL stored procedures were used to create database access layer.
* Object model, data model, constraints, tables, stored procedures, functions, triggers, and packages for Oracle Database were designed.
* User Acceptance testing portion of test plan was developed and executed.
* Debugging Software for Bugs.

Environment: Spring MVC, Spring IOC, Hibernate, WebSphere, JSP, SOAP, JavaScript, Html, JSF, JBoss, Net beans 6.1, MySQL.