**Ashutosh Gautam**

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**SUMMARY:**

* 7+ years of experience in database development, front-end and back-end programming with proficiency in analyse, design and testing applications and application deployment.
* Proficient in front-end and back-end development with experience using **Python 3.6**, **Django**, **Flask, Sqlalchemy**, **AJAX**, **HTML5**, **CSS3**, **XML**, **JavaScript**, **Bootstrap**, **.net**, **jQuery**, **Angular 2+**, **AngularJS**, and **Node.js**.
* Proficient understanding of **Django Object Relational Mapping (ORM**). Skilled in creating server side web application using **Django Framework**.
* Adaptive to Cloud Strategies based on AWS (**Amazon Web Services)**.
* Skilled in **Javascript**, **Typescript** and their dependency web application.
* Experience in **Angular modules** and creating personal module using **CLI**.
* Experience in creating web application projects using **Angular 2+**, implement angular services, directive, angular routing and more.
* Knowledge and implementation of common **Python libraries** like **numpy**, **scipy**, **matplotlib**, **pandas**, and many more.
* Experience with **SQL** and **NoSQL** databases like **Oracle 11g**, **MySQL**, **PL SQL** and mongodb.
* Strong expertise in **Object Oriented Programming** and **Data structures**.
* Academic proficiency in **Pattern Recognition**, **data acquisition** and **data engineering**.
* Comprehensive **MEAN Stack** experience and experience of version control software like **git**.
* Experience using **jquery** for DOM simplification and manipulation.
* Experience enhancing visual impact of a web page using **Bootstrap**. Experience with **dead code elimination**
* Experience with **Agile** software development process. Participating and organizing **scrum calls**, and developed in sprints.
* Technical knowledge on EC2, IAM, S3, VPC.

**PERTINENT SKILLS:**

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| **Programming Languages** | Python, JavaScript, C#, C++, SQL, Java |
| **Databases** | MongoDB, MySQL, SQLite, MS SQL, Oracle, PostgreSQL |
| **Web Development** | AngularJS, jQuery, Bootstrap, HTML5, CSS3, Django, Angular, Express.js, .NET, ASP, ASP classic |
| **Tools** | Postman, Compass, MongoDB Toad for Oracle, Jira, Microsoft Office, MySQL Workbench, Git, PyCharm, VB, VBCod, AWS |
| **Python Modules** | NumPy, SciPy, Matplotlib, Pandas, re, Scrapy, TkInter, BeautifulSoup, Requests, SQLAlchemy, Unittest, Pymongo, Zeep, Collections |

**PROFESSIONAL EXPERIENCE:**

**Green Parks, Roselle Park, NJ March 2018 - Present**

**Role: Python Full Stack Developer**

**Description:** Green Parks is one of the major irrigation firms in New Jersey, installing and servicing sprinkler systems throughout the state. I was hired to work on its web application, dubbed as Service Magic (which follows the model of Service Magic Software, an intellectual property of Green Parks). The application handled Customer Relation Model the office maintained. Its primary focus were customer management, handling prospects, technical service and sprinkler system installation history, daily services, routing among other things. I worked in developing the front end and the back end of the web application, using Angular at the client side, and Django at the server side. I reported directly to the Information Systems Officer, and had liberty to choose any approach I deemed fit to build the web application.

**Responsibilities:**

* Design and build web application that helps maintain and monitor customer relations, service and installation history, technician activities, daily maintenance management and alerts.
* As the key architect and developer, I supervised and was involved in all levels of **SDLC**, including planning, analysis, designing and implementing the software, along with beta testing new patches, and software maintenance.
* Develop the web application using **Angular** and **Django**. Used **Python**, **Django** at the server side.
* Implemented Django **views**, **models**, URL and **settings.** Implemented **MySQL** as the server side **RDBMS**.
* Integrated **MySQL** with **Python Django** by using **Django ORM (Object Relational Mapper)** to perform **CRUD (Create Read Update Delete)** operations on the fly.
* Implemented Rest calls to consume **REST APIs** using **Angular HTTPClient Modules** and test the **APIs** using **Postman.** Validated user-forms by building **custom-validators** as well as using **Angular Reactive Forms.**
* Used **$sessionStorage, $localStorage and $cookieStore** to store data in browser.
* **Deployed** application after clearing deployment checklist. A standard level of security was applied, was tested on different environments, optional security features were enabled, performance optimization was enabled.
* Used **HTML**, **CSS3** and Bootstrap to develop the interface of the web application.
* Used **angular routes** to maintain internal navigation within the application.
* Implemented **dependency injection** using **angular services**, implemented **directives** throughout the Angular DOM.
* Implemented **template driven validation** to validate client side information.
* After development, performed test cases using **Python Unittest** module.
* Created necessary documentation of the software, patch update notes, maintained software backups, database backup.
* **Software Deployment**, initially to QA testers, and after successful test, to the user community. Collaborated with the operations team on deploying, migrating data, monitoring and analyzing the software.
* Collected update feedback by beta testers, and implemented any viable suggestions, fix bug issues, and release patch notes to all party involved.
* Collaborated with team using **version control systems** like **Git**, **GitHub** for **code management**.

**Environment and Skills: HTML5, CSS3, JavaScript, MySQL, Django, Python, PyCharm, Angular, Node.js, RESTful web services, Bootstrap 3, Windows, VS Code.**

**United Nations, NY, NY July 2016 – Jan 2018**

**Role: Full Stack Django developer/Security Analyst**

**Description:** The United Nations is a global organization that aims to maintain peace and security throughout its member nations, and achieve international cooperation and harmony for their better future. With a surge in ransomware attacks and leak of sensitive data, the United Nations teamed up with Bromium Inc. to provide better information security to its employees, and train the Office of Communications on how to handle security software related issues, and how to deploy security software, patches and relevant documentations. This was the prime focus of my job, along with creating a Django Framework based web application to monitor all escalated security related issues, their status, resolution strategy and so forth.

**Responsibilities**

* Integrate and Analyse VM based security tool (Bromium) to employees working at the United Nations, and develop web application to monitor and record security related issues.
* Beta test the software, generate bug reports, collect personal feedback from its users, and act as the sole point of contact between the software vendor and UN.
* Implement security auditing procedures, Standardize rules regarding Data Loss Prevention, and BYOD, lead a quick response team to address information security issues/tickets.
* Run Vulnerability scans and resolve the findings of the test, analyse threat management feed, manage vendor companies.
* Experience in creating a web application to monitor security status, classify risk levels, assign security issues to security analyst and monitor their work progression using **Django Framework** and **Python**.
* Implement **MongoDB** as the **NoSQL database**, use **Django Models** as the source of data information.
* Use Django URLs to configure routing in the web application. Experience in **Django View** to create web request and return response.
* Experience in creating **Templates** on Django Framework. Experience in **HTML5**, **CSS3**, **Bootstrap** and **JQuery**.
* Experience in using **git** as the version control system for code-management when collaborating with team.
* Used JIRA for bug tracking, creating bug reports, and provide defect resolution to keep in line with **Agile Software Methodology**.
* Initiate daily **scrum calls** and stand up meetings. Generate weekly progress summary under the principle of DMAIC - Control to give weekly status update to high priority, low interest stakeholders.
* Cognitive about designing, deploying and operating **highly available**, **scalable** and **fault tolerant systems** using **Amazon Web Services** (AWS). Extensively worked using AWS services along with wide and in depth understanding of each one of them.
* Proficient in writing Cloud Formation Templates (CFT) in YAML and JSON format to build the AWS with the paradigm of Infrastructure as a Code.
* Gained experience in deploying applications on to their respective environments using **Elastic Beanstalk**.
* Experienced with **event-driven** and **scheduled AWS Lambda** functions to trigger various AWS.

**Environment and Skills: VMware, Bromium, Python, AWS, Computer Networks, TCP/IP, Routing, DMAIC, Six Sigma, SMTP/TLS, UNIX/LINUX, Windows**

**Telia Company Nepal, Nepal May 2014 - June 2016**

**Role: Full Stack Django Developer**

**Description:** Telia is a dominant Swedish telecommunications company, with more than 182 million mobile customers and has a regional operations headquarter in Kathmandu, Nepal. As the company was rapidly expanding, it added new warehousing locations, and needed to develop its warehousing database. I worked along with the CTO and DB Admin of the company to develop warehouse, internal web application to keep track on items in the warehouse and their necessary details (warranty, currently in, usage history and so forth). Along with this, I worked with the same team on building an activity log for for warehouse employees to monitor their assigned tasks, ticketing system to generate tasks and monitor when a given work is resolved, messaging system for better communication between different warehouse location/employees, and a logging system to track the in/out movement of warehouse items.

**Responsibilities:**

* Involved in the various phases of **SDLC** (Software Development Life Cycle) like Requirements gathering, Analysis, Design and implementation of the project.
* Develop warehousing database of major branches of the telecommunication company, using **ORACLE 11g** and **Oracle Warehouse Builder (SQLPLUS, PLSQL)**.
* Develop **server side web application** to view inventory within a warehouse, equipment status and details, inventory warranty period (calculated from date of purchase), equipment usage history among other things using **Django Framework**.
* Develop field engineer work monitoring tool to monitor the performance of field engineers, giving them standard approach to their tasks using .net framework.
* Used **HTML5**, **CSS**, **JQUERY**, **Bootstrap**, **and Excel (for data validation)**.
* Extensively used **Urllib2** as web-client for web-scraping by fetching the web-page and using **Beautiful-Soup** to parse it.
* Developed and performed test cases using **Python Unittest** module.
* Attended daily **scrum meetings** to give an update on work progression.
* Used local servers as backend server. Implemented **bcrypt** to handle sensitive password and other information.
* Experience in using Ajax to create client side asynchronous web application.
* Experience in using git as the version control system.
* Collaborated with the operations team on deploying, migrating data, monitoring and analyzing the software.

**Environment and Skills: HTML5, CSS3, ORACLE 11g, JavaScript, SQLPLUS, PyCharm, Django, Excel, Windows, Visual Studio, C#, ASP.NET, AWS, EC2**

**ZTE, Nepal January 2012 - April 2014**

**Role: Full Stack Developer**

**Description:**

ZTE is Chinese multinational telecommunication equipment and systems company, and one of China’s leading telecom equipment company. I was hired in ZTE Nepal to develop a web application to monitor employee activity in a workspace, and measure their Key performance Index via standardizing their field activity, and calculating the work efficiency, goals achieved and cell availability over their assigned region. The full stack framework used was django, built on Oracle 11g database.

**Responsibilities:**

* Experience in implementing of **Django application** with **models**, **view** and **routing** to create a full stack web application.
* Created model on Django, with **ORACLE 11g database**.
* Implemented KPI measuring system to measure work performance of field employees based on tasks completed.
* Developed professional web based UI using **HTML5, CSS3, Bootstrap, JavaScript, jQuery, AJAX.**
* Used **python library** like **CSV**, **reportlab** to export item description, task summary, work breakdown, and other data in multiple file formats.
* Used **git** as the version control software.
* Responsible for **deploying software** to ZTE cluster leads (supervising engineers with their own cluster of technicians, responsible for network monitoring, maintenance and installation over a given region).
* Create documentation upon any change, implemented beta testing to see the overall outlook of the app.
* Worked as a member of an **agile** team, daily reported for **stand up meetings**, **scrum calls**, and participated on all levels of **SDLC**.

**Environment and Skills: HTML5, CSS3, Bootstrap, JavaScript, Django, Python, PyCharm, numpy, scipy, matplotlib, CSV, reportlab, VBcode, git.**

**EDUCATION:**

**Bachelors of Engineering from Anna University, Chennai, India - 2012.**