**James Tarleton**

**Summary**

Experienced full-stack web application developer with proven technical leadership ability focused on server-side programming with experience developing high-traffic web applications in modern cloud environments.

**Recent Roles**

* While working for DOT, served in leadership roles on development of a new DOT knowledge base web application launched in Q2 2019, *DOT Street Improvements*.  Responsible for all customizations to the Drupal content management framework, coordinating with business analysts on requirements, and for end-to-end custom development from concept to planning to production launch.
* Led development and deployment of a faceted search and navigation module utilizing Solr/Lucene, including schema design, query tuning and indexing strategies.
* While working for DOT, team roles included security scanning and testing SME for a new DOT city-wide parking permit web application (launched July 2021 on AWS), *NYC DOT Parking Permits*. Responsible for the troubleshooting and ensuring compliance with the NYC3 Cyber Command city agency policy and IBM AppScan security standards.
* Implemented and configured open source and custom Drupal modules as per business requirements on seven Drupal 8/Pantheon DOT web applications (*NYC DOT Parking Permits*, *DOT Projects & Initiatives*, *DOT Street Improvements*, *DOT Employee Portal*, *Bikeshare*, *Scootershare*, *Off-Hours Deliveries*).
* Performed Drupal core upgrades, module, and PHP version upgrades on six Drupal 8/Pantheon DOT web applications, utilizing composer.
* Responsible for overall site performance across all Drupal 8/Pantheon DOT web applications, including back and front end performance troubleshooting, optimization, and metrics reporting.
* Led production deployments for both feature and security releases, managing project risks, and minimizing downtime.
* Responsible for preparing demos and presentations of all DOT Drupal 8 project enhancements, new projects, and proposed functionalities to business stakeholders.

**Experience**

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| **Velir Studios, LLC** | Boston, MA (Remote) |
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| *Senior Drupal Developer*  | January 2022 – present |
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* Develop web application features, custom theming, and custom Drupal modules to implement and support clients’ digital strategies as part of a large Drupal practice at a full-service digital agency.

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| **City of New York****Department of Transportation (DOT), IT&Telecom** | New York, NY |
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| *Senior Application Developer / ITCS Consultant* | November 2018 – present |
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* Develop and test mission-critical, customer-facing web applications (Drupal 8): DOT Projects & Initiatives, Authorized Parking Application (APA), Street Improvements, and other official DOT websites, including user and identity management, Active Directory integration, forms and reports, interactive feedback maps, geolocation, and external API integrations.
* Coordinate with business analysts, security, architects, and project managers on use cases and planning of application features at all phases of the SDLC.
* Migrate legacy parking permits (DB2 to MySQL) through custom Drupal module and ETL process development.
* Plan and develop internal reporting applications for tracking customer activity, KPIs, and performance metrics.
* Mentor and collaborate with other developers offering technical guidance and directing development tasks.
* Re-design existing features to meet system requirement specifications and business needs.
* Design exciting user experiences to implement business stakeholders’ visions.
* Perform security assessments and remediations to improve DevSecOps processes and deploy timely Drupal core and module upgrades/patches.
* Develop for accessibility and WCAG compliance.

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| **Association of National Advertisers (ANA) - Advertising Digital Identification, LLC** | New York, NY |
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| *Application Developer* | January 2014 - November 2018 |
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* Developed web application features and Drupal modules for quarterly feature releases on the Ad-ID (4A's/Association of National Advertisers) digital advertising asset tracking and identification system.
* Designed global site search engine (Lucene/Solr) features and Solr/PHP integrations, including writing SQL queries, tuning Lucene DisMax queries, data import handler configurations, schemas, and automating processes for indexing MySQL.
* Wrote Solr schema, analyzer, tokenizer, and filter configurations, field mappings and custom fields, request handlers, suggester, and highlighting components, and JVM configurations.
* Analyzed customer and business needs and translate application requirements into technical specifications.
* Adapted business rules to data models, business objects, and application logic.
* Developed internal data warehousing database and reporting applications for tracking key business performance metrics (KPIs) and forecasting sales.
* Developed custom ETL processes for nightly data migrations measuring customer activity and churn. Build custom applications to automate business processes for data validation reports provided to media vendors.
* Wrote automated functional and unit tests (SimpleTest framework).

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| **Association of National Advertisers (ANA)** | New York, NY |
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| *Application Developer* | March 2011 - December 2013 |
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* Developed modules for internal business applications within a PHP framework (symfony).
* Led migration of proprietary legacy applications and databases (MySQL) for ANA subsidiary organization (Ad-ID) to MySQL/Drupal 7.
* Led migration of legacy applications and databases (DBText) for internal department (Marketing Knowledge Center) to symfony 1.4/MongoDB.
* Scrubbed data from legacy systems to improve data quality and correct database anomalies.
* Built custom user authentication, roles, and privileges system with MS Active Directory integration.
* Wrote unit and functional tests (Lime framework).

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| **Barnes & Noble, Inc. - SparkNotes Team** | New York, NY |
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| *Web Developer* | July 2008 - February 2011 |
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* Developed highly scalable web applications within a PHP framework (symfony).
* Delivered continuous site enhancements, blogging applications, and content management features.
* Integrated front-end with highly customized Wordpress implementation to support a major front-end redesign and site re-launch.
* Led design of SparkLife module including collaborative features for bloggers and editors
* Developed front-end and back-end for new SparkCollege symfony module allowing prep students to search for colleges/universities (Solr).
* Integrated SparkCollege module with MySQL, generating Lucene queries from request data and parsing Solr response data, including geospatial parameters (e.g. within a mile/km radius, sorting colleges by distance from a zip code) and an auto-complete feature.
* Created MySQL databases and APIs using the Propel ORM library.
* Integrated advertising code, social networking features, and third-party APIs.
* Wrote automated functional and unit tests (Lime framework).

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| **Phoenix Recycling, Inc.** | New Orleans, LA |
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| *Web Developer* | August 2007 - June 2008 |
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* Designed company database (MySQL).
* Developed database-driven web application for small business.
* Delivered features including online customer sign -up, automated billing, customer account tracking, order and route information tracking, and Google Maps API (JavaScript) integration.
* Grew customer base from approximately 500 to several thousand within three months of initial site launch.

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| **Auburn University, Dept. of Athletics** | Auburn, AL |
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| *Computing Lab Administrator* | July 2005 - June 2008 |
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* Provided general IT help desk services for Office of Academic Services.
* Provided technical support for student-athlete computing lab.
* Redesigned departmental website and migrated legacy internal applications

to customized Wordpress web application.

* Administered Fedora Linux, Apache, MySQL.

**Education**

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| B.S.B.A., Management Information Systems | December 2006 |
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| Auburn University | Auburn, AL |
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**Skill Set**

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| *Languages and Platforms* | *Databases* | *Other Skills* |
| Expert PHP 7/8+ | Expert SQL  | Linux administration, virtualization |
| Expert Javascript/ECMAScript, jQuery | MongoDB | Data migrations, data warehousing, and ETL programming |
| Novice React | NoSQL databases | Composer  |
| Symfony | Relational database design and normalization | Caching (Memcached, Redis) |
| Expert Drupal 8/9+ | MySQL performance tuning | Git, Subversion |
| WordPress | MySQL query optimization | DevOps and CI/CD tools (Jenkins) |
| Expert HTML, CSS, SCSS | Exist XML database | AWS, Pantheon, Acquia |
| Front-end CSS and JS frameworks | ORM experience (Propel, Doctrine) | Security (Veracode, Tenable, IBM Appscan) |
| Bootstrap | Solr and Lucene | Accessibility/WCAG standards |