

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

Velir Studios, LLC	Boston, MA (Remote)
Senior Drupal Developer	January 2022 – present

- 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
<i>Senior Application Developer / ITCS Consultant</i>	November 2018 – present

- 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.

Association of National Advertisers (ANA) - Advertising Digital Identification, LLC	New York, NY
<i>Application Developer</i>	January 2014 - November 2018

- 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
<i>Application Developer</i>	March 2011 - December 2013

- 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).

Barnes & Noble, Inc. - SparkNotes Team	New York, NY
<i>Web Developer</i>	July 2008 - February 2011

- 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).

Phoenix Recycling, Inc.	New Orleans, LA
<i>Web Developer</i>	August 2007 - June 2008

- 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.

Auburn University, Dept. of Athletics	Auburn, AL
<i>Computing Lab Administrator</i>	July 2005 - June 2008

- 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

B.S.B.A., Management Information Systems	December 2006
Auburn University	Auburn, AL

Skill Set

<i>Languages and Platforms</i>	<i>Databases</i>	<i>Other Skills</i>
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