Derek Toms

Senior Full-Stack Developer | Specializing in C#, ASP.NET MVC Core, Nest.js, Laravel, Django, Microservices, Angular, React, Python, AWS & Azure | CI/CD, and DevOps.

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in linkedin.com/in/derek-toms-4b2246323   🔗 Portfolio WebSite

PROFESSIONAL EXPERIENCES

Mean Stack Developor
Microsoft Teams 🔗

07/2022 – 01/2025
United States

- **Developed an Application** – Built an **app** using **Electron.js, Angular, and NgRx** for the **frontend**.
- **Source Code Protection** – Implemented **Electron.js source code protection** using **Node-API** and **C++**.
- **RESTful API & Microservices** – Created a **RESTful API** with **Nest.js** and designed **microservices** using **Nest.js features**.
- **Third-Party API Integration** – Developed **modules** to integrate **third-party APIs**, including **Jira, Slack, and others**.
- **WebSocket Load Balancing** – Optimized **WebSocket server load balancing** using the **Cluster module** and **Redis**.
- **Queue Management & Logging** – Utilized **BullMQ** for **queue management** and **message logging services**.

Web Browser Development
MASQ.ai 🔗

01/2021 – 05/2022
New Zealand

- **Developed a Web Browser** – Built a **blockchain proxy-supported web browser** using **Electron React Boilerplate**, embedding **binary modules** developed with **N-API** and **C++**.
- **Full-Stack Development Expertise** – Leveraged **frontend and backend skills** to **optimize operations** and drive **project success**.
- **Django RESTful API Development** – Built **RESTful APIs** using **Django**, implementing **class-based views, generic views, and Celery** for **asynchronous task execution**.
- **Test Automation** – Utilized **Jest** and **Pytest** for **comprehensive testing** and **code reliability**.
- **Agile Project Management** – Efficiently managed projects using the **Agile methodology** and **Jira**.
- **CI/CD Implementation** – Designed and maintained **CI/CD pipelines**, significantly **reducing deployment cycles**.

Senior ASP.NET Full Stack Developer
VIBREXON

07/2018 – 08/2020
United States

- **Led Web Application Development** – Built and managed **multiple web applications** using **ASP.NET** 🔗 **, C#, and SQL Server**.
- **Optimized Data Retrieval** – Developed a **cache system** using **Cube.js**, improving **application performance** and **data access speed**.
- **Microservices Architecture** – Designed **scalable microservices** using **AWS SQS** and **C#**, enhancing **application reliability**.
- **RESTful API Development** – Implemented **RESTful APIs** to improve **communication between front-end and back-end systems**.
- **Front-End Development** – Utilized **HTML5, CSS3, JavaScript, Angular, RxJS, and NgRX** to build **responsive, user-friendly interfaces**.
- **Cross-Functional Collaboration** – Worked with **teams across departments** to **gather requirements, design architecture, and deploy new features**.
- **Code Quality & Testing** – Ensured **high performance and responsiveness** through **rigorous testing and code reviews**.

- **CI/CD Implementation** – Integrated **Continuous Integration & Deployment (CI/CD)** using **Jenkins and AWS DevOps**.
- **Mentorship & Leadership** – Provided **guidance to junior developers**, fostering a **collaborative and knowledge-sharing environment**.
- **Performance Optimization** – Successfully **reduced application load times by 30%** through **efficient coding and optimization techniques**.

Full Stack Developer with experience in Laravel
04/2017 – 12/2017
United States
Movers, Not Shakers!

- **Admin Dashboard Development** – Designed and built an **intuitive, user-friendly admin dashboard** using **Vue.js**, providing a **centralized interface** for managing company operations.
- **Booking System Implementation** – Developed a **dynamic, secure booking system** using **Laravel**, integrating **payment gateways** for seamless transactions.
- **Notification System Automation** – Integrated **SendGrid, Twilio, and Sonar** with **Laravel** to automate **SMS and email notifications** for **booking confirmations, reminders, and status updates**, improving customer communication.
- **Service Providers** – Utilized **Laravel Service Providers** to encapsulate and manage **module-level setup and configuration**, ensuring a **clean, maintainable codebase**.
- **Facades Implementation** – Implemented **Laravel Facades** to provide a **simplified static interface** for complex underlying systems, enhancing **code readability** and maintainability.
- **Middleware Configuration** – Configured **middleware** for **authentication, logging, and request validation**, ensuring both **security and efficiency**.
- **Eloquent ORM Usage** – Leveraged **Laravel's Eloquent ORM** for seamless **database interactions**, enabling **efficient data manipulation and retrieval**.
- **API Integration** – Developed **robust RESTful APIs** to facilitate communication with **external services** and the **company's mobile application**.
- **Unit Testing** – Conducted **thorough unit testing** using **PHPUnit** to ensure the **reliability and performance** of developed features.

Full Stack Ruby On Rails + Mobile
07/2013 – 02/2017
Singapore
Fuzzie

- **Developed applications using Swift and Java** – Built **robust, high-performance applications** for **mobile and web platforms**.
- **Led full-stack development** – Seamlessly integrated **frontend** and **backend** functionalities, ensuring an **efficient and cohesive user experience**.
- **Ruby on Rails backend development** – Managed **complex backend operations**, including **database management**, **API integration**, and **business logic implementation**.
- **Full-stack lifecycle management** – Oversaw the **entire development lifecycle**, from **requirement gathering** to **maintenance**, improving app performance and reducing **load times by 30%**.
- **Cross-functional collaboration** – Partnered with **diverse teams** to define project requirements and deliver **high-quality software solutions**, enhancing **security measures** and reducing **vulnerabilities by 50%**.
- **Responsive web design implementation** – Improved **user experience** across **multiple devices and platforms**, leading to a **42% increase in user satisfaction**.

EDUCATION

Master's Degree
04/2009 – 05/2013
Dallas, United States
The University of Texas
Computer Science

SKILLS

Frontend Development
HTML5, CSS3, TailwindCSS, Bootstrap, ES6, TypeScript, Angular, React.js, Redux, Vue.js, Next.js, Nuxt.js, Ember.js

Backend Frameworks
Node.js, Express, Feathers.js, Nest.js, ASP.NET, Django, Flask, Ruby on Rails, Laravel, Symfony, Yii, CakePHP, Codeigniter

Mobile Development
Kotlin, Swift, Objective-C, Xamarin, Flutter, React Native

Database Management
Prisma, TypeORM, Mongoose, Sequelize, Entity Framework, MySQL, MSSQL, PostgreSQL, MongoDB, Firebase, AWS DynamoDB

Desktop Development
WPF, Electron.js, NW.js, Node-GUI, Qt, MFC, Flutter-Windows

Programming Languages
C#, C++, GoLang, Java, Python, PHP, Ruby, JavaScript, TypeScript, HTML, CSS

Testing Frameworks
JEST, PHPUnit, RSpec, Cypress

Data Science & Machine Learning
TensorFlow, PyTorch, Keras, NumPy, SciPy, Pandas, AI/ML, OpenCV

API & Integration
PayPal, Stripe, Google Pay, Suqare, here.com, ShipEngine, TForce, GraphQL, Cube

Web Scraping and Automation
Puppeteer, Playwright, Selenium, Scrapy, Chrome DevTools Protocol

Content Management Systems
WordPress, Shopify, Drupal, Joomla, Magento

Methodologies
Test-Driven Development(TDD), Behavior-Driven Development(BDD), Domain-Driven Design(DDD)

DevOps & Infrastructure
Redis, Memcached, Firebase, AWS(Lambda, EC2, S3), Heroku, GCP

Version Control
GitHub, GitLab, BitBucket

Project Management
Trello, Jira, Asana, Monday.com

LANGUAGES

English   ● ● ● ● ○

ABOUT ME

I am a highly skilled Full-Stack Engineer with over 12 years of experience in web development, specializing in Nest.js, React/Angular, ASP.NET ⊘ C#, Django, and Laravel.What I Bring to the Table:Frontend: I design and develop dynamic, responsive, and engaging user interfaces using React.js and Angular.Backend: With extensive experience in ASP.NET ⊘ Core, C#, Django, Laravel, and Nest.js, I create robust, scalable back-end systems that power modern web applications.Why Work with Me:Strategic Thinking: I approach every project with a clear, results-driven strategy to ensure alignment with your business goals.Team ⊘ Collaboration: I thrive in cross-functional team environments, promoting clear communication and collaboration to achieve outstanding outcomes.Reliability and Efficiency: My extensive experience allows me to consistently meet deadlines without compromising on quality or attention to detail.I have a strong understanding of software architecture, including in-depth knowledge of HTTP/1.1, HTTP/2, HTTP/3, WebSockets, and TCP/IP. I am well-versed in software design patterns, as well as domain-driven design (DDD), test-driven development (TDD), and behavior-driven development (BDD). I have designed robust and flexible systems using modern technologies.Let's transform your vision into reality. I'm ready to bring my expertise to your project and help you achieve success. Contact me today to discuss how we can work together!