MICHAEL **MATOS**

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Profile

Versatile developer/designer with 11+ years of experience working in various environments and languages. Works well independently and in teams. Gains co-workers' trust and respect. Accountable to results. Promotes an open environment conducive to creative thinking. Possessive a wide array of knowledge in web, mobile web, database design/management, 3D/2D games, e-Learning, and course-based training.

Experience

Lead Software Engineer – July 2021 – Present
Dow Jones, Wall Street Journal – Princeton, NJ

- Responsible for adding and maintaining new and existing features on WSJ.com.
- Contributes to the codebase to create a better developer experience.
- Performs code audits to derive efficiency and scalability improvement opportunities and minimize code footprint.
- Contributes to the codebase to improve the shareability of components.
- Promotes a better developer through integration and setup of automated processes and custom purpose-built CLI's
- Performs upgrades and maintenance of dependencies of large-scale codebase
- Applies fixes, features, and maintenance to production environments.
- Integral in the conversion of a brand-specific Multi Page Application (MPA) to a Single Page Application (SPA)

Senior Software Developer, Research - May 2019 – July 2021
ETS – Princeton, NJ

- Architected and implemented baseline authentication and backend stacks on AWS incorporating both AWS and company-specific best practices to decrease the time and effort it takes to spin up new projects or applications
- Developed CDN on AWS to allow for the fast and secure delivery of encrypted content to applications
- Mentored junior developers across multiple projects
- Created reusable React Native components for an English Language AI application
- Established various components of CI/CD pipeline for development and deployment of English Language AI application
- Implemented automated testing for pre and post deployment of English Language AI application
- Implemented security measures on the existing serverless environment through s3 bucket encryption, pre-signed URLs, API Gateway authorizers, and more granular IAM role policies
- Developed server-side NLP interpreter to guide users through constrained speech scenarios
- Developed client-side NLP authoring tool allowing content creators to quickly and easily create content for constrained speech scenarios
- Lead front-end development efforts of a progressive web app tasked with improving users presentation skills by delivering quantifiable feedback through evaluating data derived by using AI face detection and speech evaluation

Studio Senior Engineer - June 2018 – May 2019
Deloitte Digital – Red Bank, NJ

- Created containerized environments for hosting applications using Docker
- Developed Android and iOS mobile game using C# in the Unity game engine to promote fluency in technologies to its users leveraging Docker, MongoDB, and Azure AD authentication
- Launched mobile game globally
- Created VR Fan experience using C# in the Unity game engine for the Oculus Go headset for an organization focused on the sport of Golf
- Developed various micro-sites and single-page applications for various Federal clients using AngularJS and Node.js

Studio Engineer - May 2015 – June 2018
Deloitte Digital – Red Bank, NJ

- Lead local studio monthly engineering meetings
- Experience with front-end technologies such as SASS, Gulp, Angular
- Experience with back-end technologies; MySQL, MSSQL, IIS, Apache, NodeJS
- Developed HTML5/jQuery based game launched to 21,000+ employees
- Created virtual reality experience in utilizing Oculus Rift headset and Sixense motion controllers using C#
- Developed mobile web applications, analytics dashboards, and mobile responsive websites
- Built Node applications using AngularJS
- Strategically acquired and implemented software and hardware to improve the development team's productivity
- Conceptualized and executed network architecture to facilitate day-to-day development processes

Developer / Project Associate Level 4 - July 2012 – May 2015
Deloitte Consulting LLP. – Red Bank, NJ

- Conceptualized and developed cutting-edge immersive learning solutions
- Integrated and prepared solutions for SCORM compliance and hosting on Learning Management Systems
- Working knowledge of the ADDIE model and AGILE development
- Development of Web, Flash, and Unity projects
- Administered WAMP stack
- Derived database schemas for multiple applications and games
- Implemented Accessibility and 508 Compliance standards across various web-based solutions

Developer / Consultant - August 2010 – July 2012
Booz Allen Hamilton - Red Bank, NJ

- Developed immersive learning solutions for various state and federal government agencies resulting in greater content retention through interaction
- Produced realistic 3D equipment simulators to facilitate greater in-field readiness
- Created web-based multi-platform issue tracking system enhancing QA testing of internal projects
- Built, networked, and administered server to facilitate the file share and networking needs of the team

Developer/Designer - August 2008 – August 2010
Self Employed - Old Bridge, NJ

- Developed and designed websites for small to medium-sized clients
- Crafted front-end and back-end functionality

- Designed and implemented database schemas allowing for user-controlled content
- Drafted wireframes to visualize content layouts
- Origination and conversion of design templates to HTML
- Implement various third-party APIs providing clients with eCommerce and social networking capabilities

Lead PHP Developer - June 2008 – August 2008
CMDS: Internet Marketing & Design Solutions - Middletown, NJ

- Converted wireframes into functional templates
- Implemented various SEO techniques resulting across client sites resulting in higher page rankings
- Used analytics tools to analyze SEO campaign performance and modify as needed to boost visibility
- Designed web content for cross-browser compatibility
- Created press releases and email marketing campaigns

Education
Kean University – Union NJ – May 2008
Bachelors of Science Degree in Computer Science Information Systems

Honors & Awards
- **Gold Award for Best Advance in Custom Content** – 2016 – Brandon Hall Group
- **Gold Award for Best Use of Games for Learning** – 2013 – Brandon Hall Group
- **Bronze Award for Best Learning Game** – 2011 – Brandon Hall Group

Certifications
Certificate of Eligibility, Teach of Computer Science Technology

Technical Skills
JavaScript, C#, PHP, React, React Native, AngularJS, AWS, Docker, DevOps, Node.js, Gulp, MySQL, MSSQL, MongoDB, NoSQL, HTML5, CSS3, SASS, OOP Principles, Microsoft Office, Adobe Photoshop / Illustrator / Audition, Logic Studio, Audio Recording / Mixing / Production