

Matt McMahon

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Software Engineer | Development Life Cycle | Cloud Engineering | Project Management

Career Profile

Results-driven, accomplished Software Developer highly regarded for developing applications which meet and exceed demanding corporate and client requirements. Sought for superb analytical skills, with the ability to solve challenging problems using a combination of industry standards and cutting-edge technologies, delivering clean, well-structured code. Skillset to work compatibly with clients to understand requirements and develop products that exceed quality expectations with on-time delivery. Strong team leadership skills and Agile methodology knowledge with experience working with and leading individuals from diverse backgrounds. Exceptional academic qualifications include Master of Computer Science from George Mason University.

Core Competencies

- Software Development Life Cycle
- Cloud-Based Platforms
- Digital Transformation
- Cloud Computing
- Application Design & Integration
- Fingerprinting Solutions
- Infrastructure Design
- Troubleshooting
- Performance Improvement
- Application Migration
- Project Management
- Issue Resolution

Professional Experience

GALATEA SOLUTIONS, RESTON, VA, NOVEMBER 2021 TO PRESENT

SOFTWARE ENGINEER - MARTECH TEAM

- Direct and oversee all aspects the design and implementation of RESTful APIs using Java and Spring Boot in addition to the implementation of JSON for efficient data transfer and integration with Oracle databases.
- Ascertain, assess, and translate complex business requirements into scalable microservices with the goal of dramatically improving system performance through Java 18 and Spring ecosystem (Spring Boot, Spring MVC).
- Create and initiate strategies for optimizing a sophisticated Java-based codebase in order to maintain a high level of performance and reliability with AWS services (EC2, S3).
- Execute the full software development life cycle (SDLC), including developing flowcharts, layouts, and documentation to identify requirements and solutions.
- Produce specifications, determine operational feasibility, and integrate software components into a fully functional software system.
- Ensure continued functionality of the program during maintenance and testing of software and revisit the development process to fix bugs or address concerns.
- Document each aspect of the system and applications as a reference for future upgrades and maintenance.

ICES, FAIRFAX, VA, JANUARY 2020 TO SEPTEMBER 2021

CLOUD SOFTWARE ENGINEER - MIGRATION TEAM

- Presided over all phases of application migration to cloud while monitoring and analyzing both existing and new applications to ensure zero loss of business capabilities during the transition process.
- Ensured efficient functioning of processes in accordance with company security policies and best practices in cloud security.
- Identified, analyzed, and resolved infrastructure vulnerabilities and application deployment issues and regularly reviewed existing systems to make recommendations for improvements.
- Troubleshoot and diagnosed incidents, identified root causes, documented problems and resolutions, and implemented preventive measures.

ICES, ARLINGTON, VA, AUGUST 2016 TO JANUARY 2020

SOFTWARE DEVELOPER

- Served as administrator of the entire application, ensuring compliance with state regulations and achieving a 99.2% availability rate deployed with Heroku.
- Supported full-stack web development by applying Agile methodologies for sprint planning, design sessions, development, testing, and deployment.
- Developed web applications using a variety of languages and technologies, brainstormed architectures, and participated in code reviews.

DELTEK, HERNDON, VA, MAY 2017 TO DECEMBER 2017

MARTECH ANALYST

- Created and established quantitative evaluations of marketing initiatives to determine cost-effectiveness, and integrated cloud-derived data into Oracle Marketo for an optimized, user-centric visualization experience.

WWI CENTENNIAL COMMISSION, HERNDON, VA, AUGUST 2015 TO JUNE 2016

WEB DEVELOPER

- Formulated marketing campaign assessments for the purpose of evaluating cost feasibility and deployed cloud-derived data into Oracle Marketo to enhance the user experience.

Technical Expertise

LANGUAGES: Java 8/11, Python, Go, Swift, Kotlin, C#, HTML, CSS, TypeScript, JavaScript (focusing on Angular for full-stack capabilities).

TECHNOLOGIES: AWS (EC2, ECS, S3, CloudWatch, SQS, SNS, AWS Lambda, API Gateway, AWS CLI/Yaml/CloudFormation), Spring Boot, Microservices, Angular 8, MySQL, Postgres, Git.

OTHER: Agile Scrum software development methodology, distributed application environments, SOAP/REST Web Services, ESB, JMS

Education and Credentials

MASTER OF SCIENCE (M.Sc.) IN COMPUTER SCIENCE, 2022: *George Mason University, Fairfax, VA*

BACHELOR OF SCIENCE (B.Sc.) IN COMPUTER SCIENCE, 2017: *George Mason University, Fairfax, VA*

Awards and Honors

- 2009 Economic Science Institute Presidential Scholar (\$194,000 Award)
- 2014 GMU OSCAR Grant

Professional Affiliations

<https://orcid.org/0000-0002-8303-5481>

Volunteerism

- Friends Wilderness Center, Harpers Ferry WV. Board Member, 2015
- Alale Children Center, West Pokot Kenya, Board Member, 2018-Present

Additional Information

Languages: English, Spanish

Interests: Soccer (competitive), basketball (recreational), skiing, golf, fishing, collecting antique masks, photography