

Michael Parchment

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EDUCATION

University of Maryland, Baltimore County
Bachelors of Science, Computer Science

Catonsville, MD
Aug 2020 - Dec 2023

EXPERIENCE

Software Engineer

Jan 2024 - Present

DocAI

Remote

- Spearheaded the setup of centralized logging with Elasticsearch, Logstash, and Docker.
- Collaborated on the frontend using React, Redux, and TypeScript to create an intuitive user interface.
- Increased unit test coverage to over 80% for a large Django codebase, enhancing code quality and reliability.
- Optimized testing by mocking all external API calls, resulting in a 50% reduction in execution time.
- Orchestrated the migration of infrastructure from AWS to Azure, ensuring minimal downtime.
- Managed project testing, organized PRs, and facilitated smooth merging while maintaining project quality.
- Implemented CI/CD with Docker in a GitHub Actions workflow, automating build, test, and deployment.

Web Developer

Feb 2023 - Dec 2023

Muslim Community Center

Silver Spring, MD

- Maintained and renovated multiple WordPress websites, ensuring high uptime and up-to-date content.
- Developed and implemented custom WordPress themes and mobile-friendly templates, resulting in increased website traffic, lead generation, and alignment with site design and branding.
- Optimized WordPress websites for performance, scalability, and search engine visibility, resulting in decreased page load times and increased user engagement and organic traffic.
- Collaborated with cross-functional teams and clients to develop the site-map, capture content and functionality requirements, troubleshoot issues, and refine user experience.
- Utilized Advanced Custom Fields and the Gutenberg Block Editor for efficient content management, and connected websites to Google Analytics for data-driven decision making.
- Provided technical support and training for staff on website usage and content management.

PROJECTS

Olympics Data — *Azure Data Factory, Azure Databricks, Azure Synapse*

- Extracted data from an online source about Olympic participants using Azure Data Factory.
- Stored the dataset in Azure Blob Storage for secure and scalable access.
- Loaded data into Azure Databricks for cleaning and transformation, ensuring data integrity and consistency.
- Conducted analysis and data visualization with Azure Synapse to uncover insights about Olympic achievements.

ELK-Fleet — *Elasticsearch, Logstash, Docker, Azure*

- Customized Elastic Stack setup running on Docker with pre-configured SSL/TLS certificates.
- Designed for immediate deployment by organizations needing quick and secure centralized logging.
- Unified data collection with Elastic Fleet and Elastic Agents, eliminating the need for Beats installations.

Gritchat — *JavaScript, React, TypeScript, MongoDB*

- Developed a social media app for a university campus using React and Express.
- Leveraged TypeScript to guarantee safe communication between the frontend and backend.
- Utilized MongoDB as the backend database to store user profiles, posts, and comments securely.

TECHNICAL SKILLS

Languages: JavaScript, PHP, Python, SQL

Frameworks: TypeScript, Django, Symfony

Databases: MySQL, MongoDB, Firebase

Developer Tools: Git, Docker, Photoshop, Azure

Certifications: Databricks Data Engineer Associate