Clayton O'Neill

Full-Stack Developer

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LinkedIn • Portfolio • GitHub

PROFESSIONAL SUMMARY

Experienced Full-Stack Developer with 5+ years of expertise building scalable web applications and APIs for state agencies and government organizations. Proven track record developing custom business logic, internal dashboards, and public-facing applications using modern technologies including React, TypeScript, Python, and .NET. Strong background in collaborative development environments with experience in open-source contributions and cross-functional team collaboration.

TECHNICAL SKILLS

Frontend Development

React, JavaScript, TypeScript, HTML5, CSS3, jQuery, responsive design, modern UI frameworks

Backend Development

Python, C#/.NET, Java, RESTful API development, Express.js, FastAPI concepts

Databases & Infrastructure

SQL Server (SSMS), PostgreSQL, MongoDB, database design and optimization

Development Tools & Practices

Git version control, Bitbucket, GitHub workflows, code quality and testing, Agile methodologies

Specialized Technologies

Mapping applications (Leaflet, ArcGIS JavaScript SDK), cloud platform integration, containerization familiarity

PROFESSIONAL EXPERIENCE

Software Developer II | Towson University - Towson, MD

February 2022 - Present

Lead full-stack development of mapping applications and web solutions for Maryland state transportation and health agencies. Collaborate with cross-functional teams to deliver scalable, high-performance applications that serve both internal users and the public.

MTA TIGERS - *Internal Maryland Department of Transportation Application*

- Developed React-based frontend integrated with legacy Backbone framework to improve EPA regulation compliance tracking

- Built robust .NET REST API with C# backend for data management
- Implemented geospatial data handling using ArcGIS API and Esri services
- Designed and optimized SQL Server relational database architecture
- **Impact:** Significantly improved agency adherence to EPA regulations through streamlined project mapping

MDH Environmental Public Health Tracking - *Public Health Data Platform*

- Architected responsive React 18.2 application providing public access to critical environmental health data
- Developed intuitive mapping interface using Leaflet, Esri Leaflet, and React Leaflet
- Implemented modern styling with CSS3 and Material-UI v5.8 for optimal user experience
- Built scalable C# backend to support high-volume public data access
- **Impact:** Enabled immediate public access to essential environmental health information

Technical Achievements:

- Successfully integrated modern React applications within legacy enterprise systems
- Optimized database queries and API performance for government-scale applications
- Maintained high code quality standards through comprehensive testing and code reviews
- Collaborated effectively with non-technical stakeholders to translate requirements into technical solutions

EDUCATION & TRAINING

University of Maryland Global Campus - College Park, MD
Bachelor of Science - Computer Science & Web & Digital Design (2025)

Software Engineering Fellow | General Assembly - Washington, D.C.
February 2020 - April 2020

Intensive 24-week, 700-hour full-stack development program covering modern web technologies and methodologies. Gained hands-on experience with industry best practices for frontend and backend development.

PROFESSIONAL INTERESTS

- Open-source software development and community contributions
- Cloud infrastructure and distributed computing systems
- AI/ML application development and integration
- Modern development practices and emerging technologies