Clayton O'Neill

Full-Stack Developer

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LinkedIn • Portfolio • GitHub

PROFESSIONAL SUMMARY

Experienced Full-Stack Developer with 5+ years of experience building scalable web applications and APIs. Adept at developing custom business logic, internal dashboards, and public-facing applications using modern technologies including React, TypeScript, Python, and .NET. Known for effective collaboration across crossfunctional teams and providing mentorship and technical guidance to junior developers and interns.

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. Coordinated 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 modernize dashboard displays
- 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
- Collaborated with clients to translate conceptual ideas into fully functional, data-driven interfaces and features

- **Impact:** Significantly improved agency adherence to EPA regulations through streamlined reporting and data presentation

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

- Architected a fully responsive React application optimized for seamless mobile and cross-device performance
- Implemented WCAG-compliant accessibility practices, enhancing usability for assistive technologies and supporting inclusive design
- Developed intuitive mapping interfaces using Leaflet, Esri Leaflet, and React Leaflet
- Implemented modern styling with CSS3 and Material-UI 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

Independent Full-Stack Web Developer | Hop N' Cru – Maryland *June 2020 – December 2022*

Designed and developed a fully custom web application for a local retail business, integrating inventory visibility, customer engagement features, and location-based services to enhance store accessibility and sales.

Hop N' Cru – *Store Website & Inventory Integration*

- Built a full-stack web application showcasing store information, on-hand inventory, and product availability
- Developed a custom PHP API to integrate the website with the store's internal inventory management system
- Implemented Google Maps integration to display store location and generate real-time directions based on the user's current position
- Added customer-facing features including contact options and product reservation for in-store pickup
- Delivered a mobile-responsive, easy-to-navigate interface tailored to the needs of both customers and store staff
- **Impact:** Improved customer engagement and product visibility while reducing manual inventory inquiries for staff

EDUCATION & TRAINING

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

Focused on software engineering, data structures, UX/UI principles, and full-stack web development.

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.