

# Joshua Garvey

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GitHub: [github.com/Jgar514](https://github.com/Jgar514)

## Software Developer

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### Summary

**Full-Stack Developer** with hands-on experience in building web applications from inception. Proficient in both front-end and back-end development, transforming concepts into functional and visually compelling digital solutions. Passionate about clean code, problem-solving, and creating seamless user experiences.

### Technical Skills

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- **Programming & Development:** JavaScript, HTML, CSS, TypeScript, React, Node.js, Express, Firebase, MongoDB, RESTful APIs, Tailwind CSS, Vite, NPM
- **Geospatial & Intelligence Tools:** ArcGIS, OpenStreetMap, Blender (3D modeling), Google Earth, OSINT techniques
- **Cloud & DevOps:** Microsoft Azure, Google Cloud Platform (GCP), Firebase Functions, CI/CD pipelines, Git, Google Analytics, Netlify deployments
- **Cybersecurity & Authentication:** JSON Web Tokens (JWT), bcrypt, Firebase Authentication, Role-Based Access Control
- **Automation & Tooling:** CLI Development, scripting with Bash, data processing, Postman

### Certifications

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- **Mendix Rapid Application Developer**  
*Mendix Academy | 2023*
- **Responsive Web Design**  
*freeCodeCamp.org | 2022*

# Geospatial Intelligence & Open-Source Intelligence

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## Drowning Case Study *(October 2024 - January 2025)*

- **ArcGIS StoryMaps:** Conducted a multi-state investigation into five drowning incidents across four states, utilizing geospatial mapping, timeline analysis, and enhanced surveillance footage.
- **Geospatial Visualization:** Developed a virtual 3D walkthrough of incident locations, measured movement distances, and conducted geographic comparisons using GIS tools.

## Cape St. Claire Web Application *(July 2024 - September 2024)*

- [Live Site](#) | [Code Repository](#)
- Utilized OpenStreetMap GIS data and Blender to create a topographically accurate 3D model of Cape St. Claire, MD.
- Developed React-based interactive quadrants to organize geographic locations and implemented event-driven mapping interactions.

## Software Development & Automation Projects

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### Webslinger NPM Package *(June 2024 - July 2024)*

- [NPM Package](#) | [Code Repository](#) | [Video Demo](#)
- Created a CLI tool that automates React project setup, GitHub repository creation, and Netlify deployment.
- Reduces manual setup time, deploying a production-ready app in under 47 seconds.

### Homie.Mobi *(March 2024 - May 2024)*

- [Live Site](#) | [Code Repository](#)
- Migrated Node.js/Express backend to serverless Firebase functions, reducing operational costs by 95%.
- Built a domain search tool with Name.com's API for real-time availability checks and integrated Stripe for seamless online payments.

### Full Stack MERN Application *(January 2024 - February 2024)*

- [Code Repository](#)
- Implemented secure authentication and password hashing for a full-stack application using MongoDB, Express, React, and Node.js.
- Deployed application to Microsoft Azure with CI/CD pipeline automation.

# Front-End Development & UI Optimization

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## General Contractor Website *(October 2023 - November 2023)*

- [Live Site](#) | [Code Repository](#)
- Developed a responsive business website with dark theme toggle.
- Used JavaScript's map function to dynamically serve and display business services from a structured data file, improving data organization and scalability.

## Mobile UI *(August 2023 - September 2023)*

- [Live Site](#) | [Code Repository](#)
- Designed an interface optimized for mobile navigation with tab boxes, horizontal sliders, and popup modals using React and Tailwind CSS.
- Wrote custom reusable components for mobile UX/UI.

## JavaScript Pop-up Advertisement *(March 2023)*

- [Live Site](#) | [Code Repository](#)
- Wrote an event listener that triggers the popup function when the user scrolls.
- Conditionally rendered a skip button when time requirements are met.

## CSS Top Secret Mock Resume *(February 2023)*

- [Live Site](#) | [Code Repository](#)
- Built a single-page mock resume using HTML & CSS, focusing on clean design and responsive layout.
- Styled sections with custom fonts, colors, and spacing for a polished look.

## Education

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### Associate of Arts

*Anne Arundel Community College | Arnold, MD | 2023*

### Towson University Coursework

*Towson University | Towson, MD | 2015–2016*

- Computing & Information Technology
- Calculus for Applications
- Writing for Business & Industry
- Enterprise Information Systems
- Leadership

# Professional Experience

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## Commercial Technician

*Premiere Works | Sterling, VA*

*May 2020 - July 2022 | 40 hrs/week*

- Managed commercial general contracting projects across DC, Maryland, and Northern Virginia.
- Supervised classified facility renovations, including the installation of the CIA Museum ceiling at CIA Headquarters.
- Directed renovations for 15+ secured DoD office spaces at Fort Belvoir, ensuring compliance with federal security regulations.
- Conducted site visits, supervised contractor teams, and procured materials for multiple government facilities.
- Acted as a liaison between project teams and the General Manager, communicating project status and client feedback.

## Onsite Supervisor (Independent Contractor)

*Premiere Works | Sterling, VA*

*March 2017 - May 2020 | 40 hrs/week*

- Supervised on-site renovations for the Government Accountability Office (GAO) and Thurgood Marshall Federal Judiciary Building.
- Ensured compliance with federal health and safety regulations at high-security job sites.
- Coordinated contractor teams, documented progress, and managed procurement operations.

## Security Clearance & Federal Work Experience

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- Former Department of Defense (DoD) Contractor Badge (NE Contractor – Expired) for secure federal sites.
- Extensive experience working at secure government facilities, including:
  - Central Intelligence Agency (CIA) Headquarters
  - Department of Homeland Security (DHS)
  - Fort Belvoir (U.S. Army, DoD-affiliated)
  - Government Accountability Office (GAO)
  - Thurgood Marshall Federal Judiciary Building
  - Federal Deposit Insurance Corporation (FDIC)
  - Amazon Secure Data Warehouse