

# Alan Banks

## Full Stack Software Engineer

Portfolio: <https://alanbanks229.github.io>

LinkedIn: <https://www.linkedin.com/in/alan-banks/>

Github: <https://github.com/alanbanks229>

| Email: [alanbanks229@gmail.com](mailto:alanbanks229@gmail.com)

| Phone: (301)-661-0363

### TECHNICAL SKILLS

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**Programming Languages:** TypeScript/JavaScript, Go, Python, Java, SQL  
**Frontend & UI:** React, Redux, Storybook, Vue, Tailwind, HTML/CSS,  
**Backend & APIs:** Node.js, GraphQL, REST, WebSockets  
**Databases:** PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy  
**Testing & QA:** Jest, Selenium, Cypress, Unit & Integration Testing  
**DevOps & Tools:** Docker, Git, Linux, Bash, Azure DevOps, Jenkins, CircleCI

### WORK EXPERIENCE

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#### Accenture (AFS) - Full Stack Developer

March 2022 - Present

- **Geospatial Visualization Library:**  
Developed and published a robust geospatial visualization library on npm (Cesium/React), enabling a Google Earth-like interface for multiple mission-critical applications. Drove widespread adoption across teams, streamlining the integration of complex mapping features and accelerating delivery times.
- **Project 2 - NDA:**  
Modernized a high-traffic medical web application (ReactJS) focused on patient data management by implementing a mass casualty event reporting workflow, developing a dynamic dashboard templating system for data visualization, and resolving UI and state management issues to enhance stability and performance.
- **Project 1 - NDA:**  
Developed and maintained a Map-Based, Geospatial Common Operating Picture (COP) web application using CesiumJS and ReactJS, delivering major performance enhancements by reducing map rendering times by over 75% through data structure optimizations and front-end refactoring, while optimizing legacy Go APIs and SQL queries for improved data retrieval and throughput.
- **Team Leadership & Mentorship:**  
Stepped into leadership roles to drive Agile practices, facilitate cross-functional discussions, and ensure on-time delivery in the absence of senior leads. Mentored junior developers and interns, fostering technical growth and consistent code quality.

#### Peraton - Software Developer

June 2021 - February 2022

- Selected for the Early Career "Incubator Program," focused on DoD website modernization and rapid proof-of-concept development.
- Recognized as a top performer among 10 junior developers, consistently delivering high-quality solutions.
- Developed several web applications with Python, PostgreSQL, and Vue.js, emphasizing scalability and maintainability.
- Demonstrated strong communication skills by delivering two successful proof-of-concept demos to stakeholders.

#### Global Impact - Software App Developer

August 2020 - December 2020

- Maintained and enhanced public-facing portals for non-profit organizations, ensuring a secure and user-friendly experience.
- Strengthened application security by implementing Multi-Factor Authentication (MFA) and automatic session timeouts.
- Built an internal email tool with AngularJS and Twilio SendGrid API to streamline communication and reduce manual processes.

### EDUCATION

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#### University of Maryland

August 2018 - June 2021

- BS in Computer Science

#### Bowdoin College

September 2014 - May 2018

- BA in Music