

# Alex Terskin

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## EDUCATION

**University of Maryland, College Park**

Graduated December 2024

Bachelor of Science, Computer Science;

**Honors and Awards:** Dean's list 2021

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C, Ruby, SQL, Dart, OCaml, Rust, XML

**Technologies:** React, JUnit4, Next.js, Three.js, Angular, SpringBoot

**Developer Tools:** Vercel, Git, Android Studio, BitBucket, Pandas, Postman, Cursor, Claude 3.5 Sonnet, OpenAI o1

**Backend & Databases:** Node.js, FastAPI, Firebase, MongoDB, MySQL, Apache

**Coursework:** Algorithms, Advanced Data Structures, Web Development, Statistics, Calculus II, Linear Algebra, AI

## PROFESSIONAL EXPERIENCE

**Engauge**

College Park, MD

[Education Technology Startup](#)

Summer 2024

*Software Developer Intern*

- Designed a comprehensive tech stack to support MVP development, utilizing the FERN stack (Google Firebase, Express.js, React, Node.js). This choice was driven by the need for long-term scalability and performance optimization, aligning with our goal of building a highly scalable web application
- Developed both frontend and backend components, including a multi-factor login/registration system using React and Google Firebase; a payment processing component using Stripe's payment processing API; and a teacher-student chat feature closely resembling a Twitch chat for enhanced interaction
- Successfully pitched a high-fidelity prototype and secured \$60,000 in funding from investors

**FINRA**

Rockville, MD

[Financial Industry Regulatory Authority](#)

Summer 2022

*Software Developer Intern*

- Built multiple RESTful backend services using Java's Spring Boot framework to retrieve needed information from FINRA's technology division's development and testing databases
- Collaborated with frontend engineers to design a UI that monitors the health status of FINRA's E-FOCUS system using Angular, HTML, and CSS, providing the system health status in an easy to read dash-board format
- Learned the application DB model and relevant table relationships to build and test native SQL queries. Engineered and loaded test data to perform testing using AdminSQL and Postman

## PROJECTS

**Green Acres Landscaping Website**

[Github](#) | [View Project](#)

- Engineered and deployed a modern business website using Next.js, TypeScript, and Tailwind CSS, resulting in a 100% reduction in hosting costs by migrating to Vercel's platform
- Redesigned and optimized contact forms through iterative improvements based on Google Analytics conversion data, resulting in a 20% increase in form submission rates and enhanced lead quality for the business

**DC Food Desert Simulator - Georgetown University Hackathon**

[Github](#) | [View Project](#)

- Developed a 3D interactive simulation using Next.js, TypeScript, Mapbox GL JS, and MongoDB to analyze grocery store accessibility in Washington, DC, helping urban planners identify and address food deserts

**Playable 3D Video Game Portfolio**

[Github](#) | [View Project](#)

- Developed a captivating 3D personal website utilizing Vite, Vercel, Three.js, Javascript, HTML, and CSS to highlight my projects

**TerpTune**

[Github](#) | [View Project](#)

- Developed a song database and review application using Flutter, Spotify API, Google Firebase, and AI features