

Carter Bassler

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EDUCATION

University of Virginia

Bachelor of Arts and Sciences, Computer Science

- **Major GPA:** 3.79

Machine Learning Research Assistant

Charlottesville, VA

Expected Dec 2024

Jan 2024 - Present

PROFESSIONAL EXPERIENCE

CrowdVolt (YC W24)

Founding Engineer

Charlottesville, VA

Jan 2024 - Present

- Assisted in the development of a live chat/messaging platform integrated into our main web application, aimed at enhancing user engagement and support
- Led the migration of the existing React.js codebase to Next.js, addressing routing mechanisms, updating depreciated dependencies, and optimizing server vs client side components

Bank of New York Mellon

Software Engineer Intern

New York, NY

Jun 2023 - Aug 2023

- Developed a Microfrontend for the Wealth Desktop Platform using Angular, streamlining internal processes and improving application performance 60% by optimizing data access
- Assisted in the development of REST APIs with Spring Framework, integrating them with the frontend for seamless data transfer and optimized operations
- Designed and implemented error handling mechanisms for key applications, leading to a 70% reduction in pipelining errors and enhancing system reliability for 300+ users

Fermat Capital Management - Boutique Reinsurance Hedgefund

Software Engineer Intern

Westport, CT

Jun 2022 - Aug 2022

- Produced .NET Core app to automate Catastrophe (CAT) bond data filtration, reducing manual processing time by 5 hours per week, significantly enhancing workflow efficiency and productivity
- Built an ML model with a 92% accuracy rate and implemented a system to detect and report erroneous predictions
- Optimized string manipulation operations by leveraging LINQ and REGEX, resulting in enhanced data processing speeds and system responsiveness

Software Engineer Intern

Jun 2021 - Aug 2021

- Developed an Angular web app that has been used to visualize over 40,000 data points of insurance loss
- Enhanced data visualization by integrating the Google Maps API, facilitating clearer dataset comprehension and expediting decision-making processes
- Improved application performance and ensured seamless user experience by optimizing asynchronous call handling with Threading and Promises, leading to faster data retrieval and processing

TECHNICAL PROJECTS

Imperium | Flutter, Dart, Firebase

- Created full-stack workout tracking mobile application utilizing Flutter and Dart incorporating state management, successfully launched on the iOS App Store
- Integrated Firebase Firestore for easy scalability and real-time data handling, enabling users to persist and retrieve their workout data. Implemented Firebase Authentication to provide secure user access control

Vibify | Next.js, Spotify API, NextAuth, Javascript

- Developed a web application using Next.js, integrating with the Spotify API to enable user authentication
- Created an "Anytime Spotify Wrapped" functionality, allowing users to visualize and understand their listening habits by showcasing their most played music

LEADERSHIP & RESEARCH EXPERIENCE

Alpha Kappa Psi Professional Business Fraternity

Member

Charlottesville, VA

Sept. 2021 - Present

- Organized and led a series of tech workshops aimed at educating students about current technologies and offering insights into the tech industry

TECHNICAL SKILLS

Languages: Java, Python, C++/C#, Dart, Typescript/Javascript, HTML/CSS, x86

Technologies: React.js, Next.js, Node.js, Flask, Flutter, Angular, FastAPI, Firebase, Git, Linux, Unix