

Carter Bassler

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EDUCATION

University of Virginia

Bachelor of Arts and Sciences, Computer Science

- **Major GPA:** 3.79

Charlottesville, VA

Expected May 2024

PROFESSIONAL EXPERIENCE

CrowdVolt (YC W24)

Founding Software Engineer

- Spearheaded the development of the Frontend architecture in NextJS utilizing TailwindCSS and Framer Motion
- 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

Charlottesville, VA

Jan 2024 - Present

University of Virginia

Machine Learning Research Assistant

- Collaborated with a team of 4 to develop GCSGNN, a self-explainable graph neural network capable of simultaneously generating predictions and counterfactuals for input graphs
- Helped implement the main model and baseline code, focusing on the Global Counterfactual Generation module
- Conducted experiments, ran baselines, and performed ablation studies to validate the model's performance and ensure its ability to generate reliable counterfactuals

Charlottesville, VA

Jan 2024 - Present

Bank of New York Mellon

Software Engineer Intern

- 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

New York, NY

Jun 2023 - Aug 2023

Fermat Capital Management - Boutique Reinsurance Hedgefund

Software Engineer Intern

- Developed a .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 using LINQ and REGEX, resulting in enhanced data processing speeds and system responsiveness
- Created an Angular web app that has been used to visualize over 40,000 data points of insurance loss, integrating the Google Maps API for clearer dataset comprehension and expedited decision-making processes

Westport, CT

Jun 2021 - Aug 2022

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 EXPERIENCE

Alpha Kappa Psi Professional Business Fraternity

Member

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

Charlottesville, VA

Sept. 2021 - Present

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