Carter Bassler

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EDUCATION

University of Virginia — Charlottesville, VA
Bachelor of Arts and Sciences, Computer Science — *Expected May 2024*
- **Major GPA**: 3.79

Machine Learning Research Assistant — *Jan 2024 - Present*

PROFESSIONAL EXPERIENCE

CrowdVolt (YC W24) — Charlottesville, VA
Founding Engineer — *Jan 2024 - Present*
- Assissted 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 — New York, NY
Software Engineer Intern — *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 — Westport, CT
Software Engineer Intern — *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 a 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 — Charlottesville, VA
Member — *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