Bradley Cushing

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NYU, 9/2023 - 5/2025, Graduate Student

- Coursework: Introduction to Cryptography, Cryptography of Blockchains, Applied Cryptography & Network Security, Information Security & Privacy, Theory of Computation, Foundations of Computer Science, Mathematical Techniques for Computer Science Applications, Programming Languages, Operating Systems, Fundamental Algorithms, Data Communications & Networks, and Database Systems
- Research: Multi-Party Computation, Private Set Intersection (PSI) advised by Dr. Marshall Ball in the NYU Crypto & Sec Group

Dashlane

7/2022 - 6/2023, Principal Software Engineer

- Rewrote the Dashlane core cryptographic library, encoding libraries, and cross-platform integration tests used by web client feature teams.
- Standardized encryption key organization and language which guided library and feature refactors. Implemented local storage codecs for encrypted user data and obfuscated device data.

7/2019 - 6/2022, Staff Software Engineer

- Led the architecture of the Dashlane browser extension container to support Google Chrome MV3, the biggest change by Google to WebExtensions in 10 years and the core Dashlane product experience for over 1 million monthly users for both B2C and B2B markets.
- Led a technically focused team of 5 developers to deliver cross-platform communication enabling shared user sessions between the browser extension and native desktop applications. This work secured research and development grants from the French government.
- Created, reviewed, and approved protocol design, implementation, and architecture across web, desktop, and server platforms as a member of the internal Architecture Committee.
- Created and pitched long-term, multi-year web product technical direction to the executive team and all of engineering leadership. Represented Dashlane as part of the W3C WebExtensions Community Group, Apple's open-source Password Manager Resources project, and in publicly facing engineering and product discussions with partners and competitors.

7/2017 - 6/2019, Engineering Manager

- Led technical roadmap creation and organization specific to the web product platform squad. Provided direct technical support for key projects across the entire web platform including technical feasibility, specifications, estimations, reviews, and mentorship.
- Worked directly with the talent team to define an implement the recruiting process for creation of a new development team. Managed, led, and contributed to that team which rebuilt the Dashlane website, static page build system and server, product onboarding, and payment experience.
- Contributed to the user vault experience, B2B admin experience, and product onboarding experience across all web platform contexts including the extension background, application core, and analysis engine. Implemented continuous integration for the hosted webapp and browser extension that was compatible with remote machines running Docker.

1/2014 - 6/2017, Software Engineer

- Contributed to rebuilding the new Dashlane single page web application and browser extension including account creation, authentication flows, search experiences, and team admin console.
- Contributed to the Password Changer product launch, Dashlane beta program launch, Password Changer script development, and complete UI refresh of Dashlane's first webapp.

Other

- Decker Design, 5/2011 - 1/2014, Software Engineer
- what it [dot] be, 11/2009 - 4/2011, Co-Founder
- Eisenman Associates 2/2008 - 10/2009, Junior Software Engineer

Education

New York University
Courant Institute of Mathematical Sciences
Master of Science, Computer Science

University of South Florida
Bachelor of Science

Proficiency

macOS, Linux, TypeScript/JavaScript, Node.js, C/C++, Python, Java, Bash, LaTeX, HTML, CSS, React, Git, Vi/Vim/Neovim, and GNU Core Utilities