BRIAN GROSSO

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I'm a full-stack builder that works intensely. I am dedicating my career to web3 because of its prospects for creating a better financial system and internet. I also lift weights, listen to metal music, root for the Eagles, bond with my wife and labrador/pit mix, and manage our real estate in Newark, NJ.

SKILLS

Front-End: React, Next.js, TypeScript, Figma, MetaMask, Wagmi, Rainbowkit, Angular, JavaScript, Redux, SCSS, JSS, Cypress, Jest, D3, WebRTC
Back-End: Solidity, AWS, Ethers, Remix, Hardhat, Node.js, IPFS, Python, GraphQL, CICD, Docker, SQL, NoSQL, Google Cloud, New Relic, Websockets

EXPERIENCE

Capital One | *Senior Software Engineer*   April 2022-Present
- Led all front-end development for a small team building company-wide vulnerability management and cloud optimization platform, from inception.
- Created GitHub repository, clickable design prototypes, wrote all Angular code, deployed, and oversaw through a pilot and a very successful launch.
- In order to offer dynamic transformations of data crucial to user requirements, utilized RxJS operators to query for all vulnerabilities on the front-end.
- Architected service to send requests in parallel, and present data upon first response. Transformations performed immediately on data when received, and only once per batch. Resulted in a UX where over 140 MB of data is retrieved (⅓ of browser memory limit), with only 2s of perceived latency.
- Oversaw pod of 4 interns with no experience in JavaScript, TypeScript, or Angular, empowering them to make meaningful contributions to the app.
- Contributed significant code in week 1 of employment, building an ETL as well as an API, both using AWS Lambda and written in Python.
- Deployed app using infrastructure as code with bundle hosted in an S3 bucket behind a Cloudfront distribution. Integrated with Ping SSO.
- Wrote hundreds of tests using Karma and Jasmine, and established analytics using Tealium, New Relic and Google Analytics.

de-signature.xyz | *Founder*   September 2022-Present
- Created a service for signing and storing legal contracts as NFTs on the blockchain forever as an immutable, permanent public record (example).
- Rendered 1-page legal contracts as the image for ERC-721 token using base64-encoded SVG, updatable only by the parties until it has been e-signed.
- Deployed the smart contract on Polygon mainnet to minimize transaction fees; built UI with Next.js and hosted on Vercel to streamline devops.

SPN DAO | *Core Contributor*   December 2022-January 2023
- Core contributor to a data DAO deployed on Polygon mainnet.
- Empowered users to capitalize on the alternative data phenomenon and monetize their data in a secure, transparent way by joining the DAO.
- Built a UX where users upload credit card transaction data, which is immediately anonymized and encrypted with Lit protocol before uploading to IPFS. User then receives a soulbound token, becoming a member of the DAO, and receives MATIC payment whenever an admin user views their data.
- Enabled a complete experience by allowing users to leave the DAO at any time by burning their soulbound token, which also unpins IPFS data.

Dottid | *Full-Stack Javascript Developer*   2021-2022
- Made crucial contributions for Series A-stage real estate startup including leading a second iteration of UX and fixing API performance issues.
- Led migration of React app to Material-UI v5, debugging dozens of breaking changes such as style engine switch, and rewrote various components.
- Owned effort to preview any common file type in browser, via short-lived signed URLs fed into Office Viewer iFrames without affecting bundle size.
- Identified critical flaw in GraphQL API configuration causing significant latency, and owned effort to address via debugging DataLoaders.
- Implemented major redesign of in-app high stakes deal negotiation interface involving multi-page form using Formik and Yup validation.
- Overhauled app-wide side navigation, from click toggle to hover, based on viewport size and other factors, using Context API, in week 2 at company.

BeamQL | *Co-Founder*   2021
- Built open-source web app in React to streamline migration to GraphQL by automating schema and resolver production, to add a GraphQL controller layer on top of any existing REST API, as well as provide interactive graph-based schema visualization powered by HTML Canvas and D3.js.
- Designed front-end, logo, and entire UX from scratch, taking risks on color scheme and aesthetic while maintaining accessibility and ease-of-use.
- Architected Node.js/Express server based on the middleware design pattern to chain extensive data wrangling logic together among singletons.
- Extract metadata from any user-inputted PostgreSQL database to generate complete schema and resolvers for GraphQL based upon foreign keys.
- Bundled application with Webpack utilizing hot module reloading, ES6+ transpilation, minification and uglification to minimize bundle size.

North Star Academy | *AP Physics Teacher & Curriculum Designer*   2019 - 2021
- Enhanced student proficiency utilizing proprietary edited video content of physical scenarios and adaptive learning technologies during pandemic, helping first generation students pass an especially rigorous AP exam and gain acceptance to Ivy League universities majoring in Computer Science.

JBF Capital | *Equity Portfolio Manager & CFA*   2016 - 2019
- Quantitatively invested $50M building extensive modeling and screening software to filter companies in East Asian markets trading cheaply relative to equity and profits, with algorithms detecting inflections in business momentum, outperforming global value benchmarks and earning CFA charter.

PRESENTATIONS

SingleSprout Speaker Series | **WebRTC: A Story of Browsers Finding Their Voice**   https://youtu.be/C50B9PruA6Q | 2021
A detailed look at the history and future of peer-to-peer communication and the rise of WebRTC as a standard web API.

EDUCATION

AWS Certified Solutions Architect | **Associate**   October 2022

University at Buffalo | **Bachelor's of Science**   2012-2016
GPA: 4.0; SAT: 1450; Bloomberg Technical Aptitude Test: 99th percentile; Started an investments business and blog with >1M views while studying.
SOM Honors Program, GEICO Achievement Award, NYSSCPA Memorial Award, Dean's List, A.J. Drexel Scholarship, T. Kelly Investment Group