Brian Kasper

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Skills

- JavaScript | React.js | Node.js | CSS | TypeScript | NextJS | AngularJS | Express.js | GraphQL | Elasticsearch | MongoDB | React Native
- Figma | Jest | Cypress | Puppeteer | Playwright | Unit Testing | E2E Testing | Jenkins | CI/CD | Docker | Amazon Web Services (AWS)
- Software Architecture | Micro Frontends | UI/UX Design Principles | Web Accessibility (W3C/WCAG) | Agile Methodologies | Full-Stack

Experience

Software Engineer — **Coinbase** — *New York, NY* — **11/2024 - Present**

- Helping Coinbase maximize total assets on the platform by delivering key product enhancements tailored to high-net-worth individuals, leveraging **React Native**, **TypeScript**, and **GraphQL** to build scalable and user-friendly solutions.

Senior Software Engineer — **Mediaocean** — *New York, NY* — **03/2024 - 11/2024**

- Leading the design and development of multiple enterprise-level micro frontend applications for Prisma Buyer Workflow, driving **$200M of revenue** each year using the latest technologies of **NextJS, TypeScript,** and **CSS Modules**.
- Spearheading the architecture and implementation of scalable APIs and background workers that serve 50,000+ daily users, using **JavaScript, Express.js**, and **AWS OpenSearch (Elasticsearch)**.
- Migrated the existing frontend test suite from Puppeteer to **Playwright**, achieving a 30% increase in execution speed while significantly reducing flakiness.
- Collaborated with cross-functional teams to gather requirements, provide technical guidance, and meet key project deadlines.

Software Engineer — **03/2023 - 03/2024**

- Assisted in the redesign of Prisma Buyer Workflow's campaign dashboard using **NextJS**, **React.js**, **Node.js**, and **TypeScript**; optimized performance through code refactoring and server-side rendering, resulting in 30% higher user engagement.
- Improved system monitoring by integrating telemetry to collect detailed metrics; facilitating enhanced logging capabilities by linking client-side API interactions with specific data contexts for better traceability and analysis.
- Designed various continuous integration/deployment pipelines to streamline development, performed load/stress testing as well as unit/integration/e2e testing, reviewed pull requests and provided guidance to other developers.

UI Developer — **10/2021 - 03/2023**

- Created a library of pure, framework-agnostic web components using **TypeScript**, **HTML**, and **CSS**, facilitating a company-wide UI refresh that enhanced user experience and aided in the successful acquisition of Lumina, a global media planning tool.
- Developed and maintained an extensive testing suite, comprising over 200 unit tests using **Jest** and 800+ end-to-end tests using **Puppeteer**, ensuring robust product quality and significantly reducing the occurrence of recurring bugs.
- Collaborated closely with product and UX teams, gathering UI requirements via **Figma** and ensuring seamless integration of designs.

Software Engineer, Work Placement — **PNC Bank** — *Pittsburgh, PA* — **05/2021 - 10/2021**

- Implemented robust cybersecurity protocols, risk assessments, and incident response strategies using **JavaScript**, **Python**, and **SQL**, mitigating potential cyber threats and protecting client assets valued at $500B+.
- Conducted comprehensive data analysis and developed insightful reports by leveraging advanced **SQL** queries and **Python** scripts, enabling informed decision-making though emerging threats data across multiple business units.

Software Engineer, Intern — **TD Ameritrade** — *Jersey City, NJ* — **05/2020- 08/2020**

- Migrated TD Ameritrade's consumer website to the latest version of **AngularJS**, utilizing code splitting, lazy loading, and server-side rendering, reducing load time by 60% from 3.1s to 1.2s.

Software Engineer, Intern — **05/2019 - 08/2019**

- Developed a proprietary web application using **JavaScript** and **AngularJS**, streamlining the automation of release documentation.

Education

Bachelor of Science — **The Pennsylvania State University** — *State College, PA* — **08/2017 - 05/2021**

- Major in **Computer Science** | Dual Minor in **Cybersecurity** & **Mathematics** | 3.52 GPA

Projects

- **FLUX LoRA AI Training:** Trained a LoRA adapter for the FLUX AI model to generate hyper-realistic self-images using **PyTorch**. **(08/2024)**
- **CUE Mobile:** Developed an iOS and Android mobile app using **React Native**, offering AI-driven astrology insights via LLMs. **(01/2024)**
- **CUE:** Developed a NextJS website for personalized astrology insights, leveraging a **MongoDB** database with 14k+ data points. **(08/2023)**