

JULIA SHI

Software Engineer | NYC, NY | juliajshi@gmail.com | (415) 728-8734 | github.com/juliajshi | linkedin.com/in/juliacshi/

SKILLS

Languages and Frameworks: Typescript, JavaScript (ES6+), C++, React/Redux, Next.js, HTML5, CSS, Tailwind, Jest

Technologies: SQL - PostgreSQL, NoSQL - MongoDB, Webpack, Vite, Node, Express, Git, AWS (Lambda, EC2, S3)

EXPERIENCE

Nextar (Open Source) | *Software Engineer*

July 2023 - Present

Dashboard for Next.js developers to visualize key performance indicators for search engine optimization

- Released an open source library for Next.js developers to view web vitals and server-side API activity in applications
- Created React components that seamlessly incorporated interactive graphs, made with D3.js to show real-time LCP, FCP, CLS, INP, and TTFB metrics of data transactions in test environments in a local endpoint of a Next.js application
- Designed a router agnostic dashboard to help developers make educated optimizations based on web vital statistics
- Invested in middleware to modularize backend logic, making it easier to add multiple endpoints to the Express application and efficiently handle API requests
- Transformed OpenTelemetry data transfer metrics into a cascading waterfall visualization of time per requests and response cycles, color coded to reflect HTTP status codes

Munchrooms | *Web Developer*

August 2020 - Present

Small business with a focus on sustainable snacking and mushroom-themed merchandise

- Migrated the e-commerce website to a cloud-based web development platform and Shopify, combining product information and brand aesthetics to optimize the customer experience
- Crafted wireframes with Figma and Adobe Illustrator for intuitive designs and implemented designs both with custom HTML and CSS and with elements created in Adobe Illustrator, working with built-in website functionality

PROJECTS

Tickets | *Software Engineer*

Online platform to manage catalog items

- Installed and configured PostgreSQL databases to catalog and track inventory, ensuring accurate record keeping
- Fetched data using APIs to update the dataset and implemented sorting and filtering capabilities to change displays
- Constructed SQL queries to extract and analyze data in order to facilitate data-driven decision making

Plantee | *Software Engineer*

Directory for multiple houseplants with options to add care and maintenance instructions

- Configured Webpack to transpile ES6+ into small bundles for performance and to access hot module reloading
- Designed a MongoDB database after exploring and validating database products for flexible document based storage of data types to store user information, prioritizing the ability to easily insert data and expand if needed

VIBES | *Software Engineer*

Website to filter and save study spots by location and amenities

- Integrated Tailwind and DaisyUI libraries on top of React to create intuitive and maintainable components
- Used Node.js to develop a high performance, scalable application for asynchronous non-blocking I/O operations

EDUCATION

Boston University, Boston, MA

Bachelor of Science - Major in Biomedical Engineering | Minor in Computer Engineering

INTERESTS

Ceramic Artist | Fiber Arts Enthusiast | Passionate Pickleball Player | Recreational Biker | Vintage Furniture Restorer