Jeffrey Chen

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Education

New York University   *Sept 2020 - May 2024*
Bachelor's in Computer Science

Relevant Coursework: Discrete Math, Linear Algebra, Basic Algorithms, Data Structures, Theory of Computation, Computer System Organization, Operating Systems, Data Management Analysis, Software Engineering, Agile Development & DevOps, Applied Internet Technology.

Experience

Software Engineer   *Manhattan, NY*
Pupil   *October 2023 – June 2025*

- Improved perceived load time by 25% using preloaders and state-based rendering for smooth startup.
- Replaced deprecated carousel library, cutting initialization time by 45% and improving page responsiveness.
- Reduced carousel bundle by ∼400KB, improving load time and Lighthouse performance metrics.
- Reduced image load delays by 20% and increased carousel engagement by 15% via preloading and autoplay.

IT Student Worker   *Manhattan, NY*
NYU Facility of Arts & Science   *February 2022 – May 2024*

- Set up 200+ computers with required software for educational use to aid in professors' teaching.
- Assisted 200+ staff by troubleshooting technical issues with devices and printers.
- Managed and updated 500+ network devices with security features and software.

Projects

Matcha Generator | *Next.js, React, FastAPI, Llama 3.1, Docker, Vercel*   *2025*

- Developed an AI-powered recipe generator using Llama-3.1 via Hugging Face Inference API.
- Integrated end-to-end data validation and error handling from FastAPI backend to responsive Next.js UI.
- Refactored FastAPI backend into a Vercel serverless API route for seamless, scalable deployment.
- Containerized backend and frontend applications using Docker for consistent development environments.

Personal Website | *Vue.js, HTML, CSS, Typescript, Tailwind, Git*   *2025*

- Developed a personal website with project showcases, about me, and resume with 1000+ impressions.
- Configured a custom domain with automated CI/CD using GitHub Actions, deployed via Cloudflare, and integrated SMTP server for reliable email forwarding.

matchaluv | *Flutter, Dart, Firebase*   *2025*

- Built a cross-platform social media app with Flutter and Firebase, featuring user authentication, image uploads, and real-time feeds.
- Created responsive wireframes and UI prototypes in Figma to guide app layout, navigation, and user interaction design.
- Implemented secure backend integration using Firebase Authentication, Cloud Firestore, and Storage.
- Developed custom form validation and async username checks to enhance user onboarding.
- Managed global state with Provider and reactive user data updates.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS, C, Kotlin, SQL, Cypher, JSON, SCSS, Dart, LaTeX

Technologies: Vue, Svelte, React, React Native, Flutter, Tailwind CSS, Node.js, Express, pandas, matplotlib, MongoDB, PostgreSQL, Neo4j, Git, GitHub Pages, Jupyter, Visual Studio Code, Android Studio, Figma, Docker, Kubernetes, Vercel, Cloudflare, Firebase