Jeffrey Fernandez *Software Engineer*

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WORK EXPERIENCE

Software Engineer apprentice JPMorgan Chase (JPMC)
05/2020 – present
450 W 33rd St, Floor 09 New York, NY, 10001-2603,
United States

- Delivered secure, accessible, and scalable web experiences in **React/Octagon** and TypeScript using the **Manhattan Design System (MDS)**; shipped features used by millions of **Sapphire Reserve** customers across mobile, tablet, and desktop.
- Built reusable UI components and standardized global styles (typography, responsive mixins), improving consistency and accelerating feature delivery within the **MDS** framework.
- Increased release quality with automated testing: added unit tests (**Jest**) and **TrueCD UDF** acceptance tests; authored **Cypress** end-to-end suites to reduce pre-release defects and improve build reliability.
- Hardened integrations and error handling via **Wiremock** failure scenarios and contract testing; improved recovery UX and reduced integration regressions across the stack.
- Instrumented analytics for key interactions and optimized performance (image payloads, loader logic, preloading) to cut time-to-render on high-traffic views.
- Supported CI/CD readiness with **JetStream** and **Bitbucket**: monitored pipeline health, managed feature flags, ensured production-ready merges, and validated cross-device flows in **QAC2**.
- Led user-centric accessibility uplift using **NVDA** and **a11yToolBox**; performed **ADA** desk checks and resolved UI issues to ensure inclusive, compliant experiences.
- Built an LLM-powered recommendations chatbot in Python/Flask with a multi-agent architecture; integrated **Apple and OpenAI APIs**, validated endpoints with **Bruno**, and traced behavior via **AWS console logs**.
- Collaborated cross-functionally (Product/Design/**Figma**) in agile sprints; documented API contracts in **Confluence** and iterated quickly to align solutions with business goals.

Finance Experience
New York City

- Gained hands-on experience in **sales and reselling**, working with **gold, jewelry**, and high-demand products.
- Managed business transactions, negotiating deals, and assessing the value of assets for resale.
- Developed a strong understanding of **market trends**, **profit margins**, and **cost analysis** through real-world reselling practices.
- Built relationships with **industry professionals**, enhancing my knowledge in **finance**, **wealth management**, and **entrepreneurship**.

JFM Capital Group LLC (PurePay) Founder & Lead Software Engineer
06/2025 – Present | New York

- **Founded and operate a software product incubator**, leading the technical strategy and full-stack development for **PurePay**, a fintech platform enabling flexible payment and layaway solutions.
- **Architected a scalable web ecosystem** using **Next.js 14**, **TypeScript**, and **Sanity CMS**, deploying production-ready environments on **AWS App Runner** with automated CI/CD pipelines.
- **Engineered the PurePay MVP payment infrastructure**, integrating **Stripe Connect** to handle secure checkout flows, merchant onboarding, and recurring subscription models.
- **Developed a secure, role-based admin portal** to manage portfolio content and monitor system health, implementing **Server-Side Rendering (SSR)** to optimize performance and SEO.
- **Established enterprise-grade engineering practices**, including strict type safety, modular component architecture, and automated testing to ensure maintainability and rapid feature deployment.
- **Orchestrated cloud infrastructure** using **AWS ECR** for container management and **Lambda** for serverless backend processes, reducing operational overhead while ensuring high availability.

EDUCATION

John Jay College, BS in Computer Science & Information Security
08/2025 – Present
524 W 59th St, New York, NY 10019

- Expected Graduation: 05/2029
- Member of MBK/ACE (My Brothers Keeper's) showing academic excellence
- Founder of a startup Club at John Jay
- Program involvement: Pathway Matching Program CareerWise

BMCC Borough of Manhattan Community College course
New York, United States

- CSC 101 (College Now), Summer 2023, New York, NY

Arizona State Universiy course

- AWS Cloud Computing 1 (Arizona State University); AWS Cloud Practitioner badge

Richmond Hill High School
09/2021 – 06/2025
89-30 114th St, Richmond Hill, NY 11418

- Graduated with a citizenship, and regents endorsement Diploma
- Varsity Soccer Team Captain
- CareerWise program student
- Contributed to school software development pathway