Leo Au-Yeung

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EXPERIENCE

Stripe New York, NY

Software Engineer II Mar 2025 - Apr 2026

- Reduced bank payout pauses by 49% with <$2k fraud loss/month, leading effort with data science partners by quantifying historical fraud false positives, implementing rule changes in Ruby, and verifying through A/B Testing.
- Designed, launched, and owned Java gRPC service for centralized MongoDB account history for 5M+ merchants, serving real-time risk decisions for 400+ engineers and handling 2M+ daily transactions with 99.995% uptime.
- Pioneered Stripe's first end-to-end gRPC testing framework, catching and fixing silent infrastructure and permissions failures by re-sharding MongoDB via primary-ID migration, setting the Risk org's testing standard.
- Built Apache Airflow pipeline to automate daily merchant review exemptions, eliminating 5,000+ unnecessary reviews for 2,000+ loss-liable platforms processing $277B in annual payment volume.
- Coordinated 3 teams to drive the first migration of 250,000+ fraud reviews to a modernized Ruby framework via shadow-mode rollout, unblocking fraud experimentation and establishing a reusable migration template.

Qualtrics Seattle, WA

Software Engineer II May 2023 - Feb 2025

- Spearheaded the migration of the Heat Map product from Angular to React & TypeScript, a heavily used widget utilized by 70% of client brands with 800,000+ weekly executions.
- Reduced latency of Koa (Node.js) microservice by batching async workflows and retries and building golden signals monitoring and alerts in Grafana/Splunk, achieving 99.999% uptime and Sev-1 reliability certification.
- Migrated microservice from Nomad to Kubernetes across 9 data centers, moving CI/CD for code reviews, e2e testing, and deployments from Jenkins to Spinnaker with Helm, KEDA autoscaling, and AWS CloudWatch.
- Designed and implemented a nested category favorability calculation feature in React & Express, supporting a $11M ARR request with 45,000+ DAU.

Software Engineer Aug 2021 - May 2023

- Designed and built a key-value Redis cache to replace existing in-memory caches, leading to a 30% reduction in query response times for Java Spring Boot service.
- Achieved full VPAT accessibility on customer-facing dashboards as team's accessibility SME, ensuring code adherence to the WCAG 2.1 and Section 508 standard requested by high-profile clients generating $20M+ ARR.
- Accelerated the deprecation of a monolithic dependency by 8+ weeks by building a Puppeteer export workflow for response data and generating a data packet through AWS lambda workflow.
- Iterated with product managers to design and deliver support for historical dataset comparisons using React & TypeScript, driving $1M+ increased revenue with 500,000+ annual customer requests.

Software Engineer Intern Jun 2020 - Aug 2020

- Built two React extensions to integrate with G Suite (Cal, Sheets) with 10k+ yearly executions across 80+ clients.

Numina New York, NY

Software Engineer Intern Jan 2019 - Dec 2019

- Built React/GraphQL admin panel used by 100% of employees, reducing customer on-board time by 90%.

SKILLS

Programming Languages: Ruby, Javascript, Typescript, Python, Java, C++

Software & Tools: React, Node.js, Angular, Jest, Git, Sourcegraph, Splunk, Grafana, Amplitude, Nomad, Docker, AWS, Jenkins, Spinnaker, Kubernetes, LaTeX, HTML/CSS, Express, Koa, Spring, MongoDB, MySQL

EDUCATION

Hunter College - Daedalus Honors Program New York, NY

Bachelor's in Computer Science, minor in Math, Theatre Aug 2017 - May 2021

Stuyvesant High School New York, NY