

Brent Sienko

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EXPERIENCE

Coinbase Inc.

Seattle, WA

Software Engineer II (Retail Advanced Trading)

March 2022 - February 2026

- Architected and delivered a reusable, extensible, asynchronous retail trading orchestration layer on Temporal, consolidating multi-step trading workflows into a single user action for a US Derivatives initiative. Partnered with product and frontend to define PRD requirements; owned milestone sequencing, engineering resourcing, and rollout strategy; and established production monitoring, alerting, and observability. Mentored a junior engineer, delegated ownership of core components, and scaled delivery through parallelized execution across the team.
- Owned backend API development for Coinbase's US Derivatives offering within Retail Advanced Trading, delivering the core trading surface for CFTC/NFA-regulated crypto and non-crypto futures – including onboarding, account lifecycle management, order entry/execution, and product, balance, and position data – supporting a regulated retail derivatives launch.
- Led a multi-quarter, multi-service redesign of the positions pipeline, establishing concurrent processing for order fill and contract delivery events to ensure accurate positions, PnL, and tax reporting for the first of its kind 24x7 crypto Derivatives trading launch in the US. Directed technical scoping and delivery across 4+ cross-functional teams spanning four timezones, owning architecture decisions, milestone planning, and regular progress updates with engineering managers, product leads.
- Directed technical design and launch of new US Derivatives order types (Bracket, Fill or Kill, Post Only), extending the brokerage order-lifecycle and FIX execution stack integrated with Coinbase Derivatives Exchange. Aligned 6+ cross-functional teams, drove design decisions with product leadership, and delivered an on-time, incident-free launch processing 4.5M+ successful orders.
- Built launch automation and extensibility for new contract onboarding, reducing manual engineering effort from days to minutes. Designed and shipped an alpha-user gating mechanism to safely validate new contracts and features in production with controlled exposure.
- Architected tiered pricing and fee experimentation for US Derivatives within the retail brokerage stack, delivering the first pricing incentives framework for Retail Advanced Trading and a shared, extensible tiered pricing model across Spot and US Derivatives based on L30D trading volume.

Amazon Web Services

Seattle, WA

Software Development Engineer (Aurora PostgreSQL Engine Team, Babelfish Core Dev Team)

August 2020 - March 2022

- Built out key functionalities in C and SQL for the initial release of Babelfish for Aurora PostgreSQL, an extension that enables PostgreSQL support of TSQL dialect, including datatype implementations, casting and coercion logic, TSQL function implementation, parser/lexer logic, ownership and permissions
- Developed correctness test framework in Python (2,000+ lines of code) for Aurora PostgreSQL that executes highly concurrent transactional workloads to validate ACID properties of Aurora's transaction infrastructure across primary and replica database instances
- Mentored and guided a summer intern throughout their completion of a three month long Babelfish project that I designed

Autodesk

San Francisco, CA

Machine Learning Intern (Cloud Licensing Team)

May 2019 - August 2019

- Furthered Autodesk's current company-wide SaaS initiative to implement CI/CD software practices by building a prototype application that automates canary deployment and reduces potentially error-prone, time consumptive QA Engineer intervention in real time
- Utilized unsupervised machine learning via HDBSCAN Hierarchical clustering model to gauge distributed system activity based on latency, traffic, errors, and saturation via elasticsearch and logstash and metrics data via DataDog
- Leveraged Multi-Processing in Python via ThreadPool, designed an intelligent data-keying protocol in AWS S3 persistent storage, and modularized the overall data pipeline components with OOP best practices to provide application extensibility and configurability

EDUCATION

University of California, Berkeley

Berkeley, CA

B.S. Electrical Engineering and Computer Science

Fall 2019

SKILLS

- Languages:** Golang (Go), Python, Java, C, SQL, JavaScript,
- Technologies:** gRPC, GraphQL, Kafka, Temporal, Datadog, K8s, AWS, Github, Instant API Hooks, Claude Code, Cursor

ADDITIONAL & EXPERIENCE

- AIARE 1 Certification** that overviews complex avalanche risk management and decision making when traveling in the backcountry
- theCoderSchool Code Coach** in 1:1 and full class formats with sessions covering fundamentals in Python, Javascript, and Scratch that overviewed algorithms, data structures, object oriented programming, coding best practices
- Counselor** of 17 campers at **Camp Kesem**, an organization for kids ages 5-17 whose parents/guardians have been affected by cancer
- Yorba Linda High School Mustang of the Year, Band President, 3x Outstanding Musician Award** at yearly Reno Jazz Festival 2014-16, **SCSBOA Honor Jazz Band 2016**