

# Jason Dong

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## EDUCATION

### Cornell University

GPA: 3.9 | Bachelor of Science in Computer Science; Minor in Applied Mathematics, Minor in Business

Expected May 2026

Ithaca, NY

## EXPERIENCE

### Software Engineer Intern

Meta, Global Service Placer Team

May 2025 – Aug 2025

Bellevue, WA

- Redesigned GSP Data Fetcher architecture by introducing **generic interfaces**/factory methods, **decoupling service-specific logic** into sub-fetchers, significantly improving extensibility, maintainability, and onboarding for new platforms
- Cut new service integration time **~40%** & reduced code duplication/coupling by **2000+** LOC via fetcher modularization
- Developed a **new dry-run testing framework** for GSP Data Fetcher, enabling **validation of data fetching** across multiple services, **reducing regressions**, and **ensuring correctness** through output state difference checks
- Added **comprehensive unit tests** for data fetcher sub-fetcher implementations, fetcher factories, and GSP Data Fetcher functions, **boosting coverage from 55% to 85%** while validating both new and legacy logic for robust reliability
- Designed and implemented a **regression testing framework** for Core Data Services by introducing snapshot-based GSP config/state storage, enabling reproduction of historical issues and validation of bug fixes before production rollout
- Implemented CLI-driven **regression workflows** and **A/B testing pipelines** to run GSP state snapshots against both prod solver & new solver binaries, ensuring **early detection of regressions** + improved confidence in system reliability

### Software Engineer Intern

HashiCorp, Cloud Services RBAC Team

May 2024 – Jan 2025

San Francisco, CA

- Developed a custom plugin/middleware using Protocol Buffers to **automate authorization** for gRPC APIs by injecting authorization checks directly into API calls via an interceptor, **enhancing security** and streamlining development
- Architected **reusable** Protobuf schema formatting and custom option to provide a **consistent, simple, and easily readable** structure for developers to define services, RPC methods, and associated required permissions and scope
- Utilized Protobuf reflection to filter proto files for custom option, combining resource scope/user permissions from request/context objects to **authorize requests** & ensure **secure access** across company environments/workflows
- Tested and integrated the middleware into the authorization service using feature flags, Docker, and PRDE for **seamless testing and production deployment**, ensuring **smooth transitions** and **minimal downtime**
- Developed extensive unit and integration tests to ensure **correctness**, **high code coverage**, and **robust functionality**
- Co-led documentation development for code review process/team expectations, standardizing best practices across team

### Software Developer Intern

Artisan Partners, Enterprise Systems Team

May 2023 – May 2024

Milwaukee, WI

- Led the **migration** of Tomcat legacy applications to serverless AWS Lambda, which source data from multiple external APIs and process over **30,000 data fields for 600+ employees** daily, enabling automatic scaling and reducing costs
- Implemented a custom service that **actively monitors & classifies 3,000+** items daily to **identify potential violations** within Dropbox ecosystem, ensuring **data handling** complies with industry regulations & internal policies
- Spearheaded a **data synchronization** initiative, leveraging AWS Lambdas to efficiently retrieve/process data to update SQL Server databases for **300+ organizations**, enhancing the accuracy/consistency of firm data across platforms
- Contributed to Azure Statement Translation AI Project talks, demonstrating strategic foresight/cross-platform expertise

### Web Development Head

Cornell Autonomous Sailboat Team

Feb 2023 – Jan 2025

Ithaca, NY

- Spearheaded CU Sail website's transition to React, focusing on significantly **enhancing interactivity/scalability**
- Outlined/Planned the structure for React transition, including component planning & design for efficient implementation
- Mentored younger team members on React and web development concepts and best practices
- Responsible for maintaining and updating the CU Sail website, ensuring optimal performance and user experience

## PROJECTS

### StackSolution | Go, Python, CLI, Docker, Agile

- Built a pre-flop decision engine for NLHE poker using Go, integrating logic from advanced GTO charts and enabling dynamic stack size and position-based decisions via a command-line interface
- Designed modular game logic, including card classes, hand evaluation rules, winner determination, with scalable backend

### ML Activity Recognition | Python, CoCalc, Jupyter Notebook, Kaggle

- Machine learning project to analyze human activity and differentiate between walking, running, crawling, and stationary
- Utilized Recurrent Neural Networks (RNNs) to accurately recognize and differentiate between these activities

## TECHNICAL SKILLS

**Programming Languages:** Python, Go, Java, OCaml, JavaScript, C/C++, Swift, HTML, CSS

**Frameworks/Libraries:** React, Node, gRPC, Protobuf, Mockito, Spring, Material UI, Swagger API, pandas, NumPy

**Development Practices:** Agile, CI/CD pipeline integration, version control, pull requests, code reviews, unit/integration test