

DAVID JUAREZ

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EDUCATION

Columbia University | GPA: 3.80

May 2026

Bachelor of Science in Computer Science

New York, NY

- **Honors:** Dean's List (3), QuestBridge Scholar, Elks Scholar
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Advanced SWE, Cloud Computing, Databases, Operating Systems, Computer Networks, Data Structures & Algorithms
- **Clubs/Organizations:** Upsilon Pi Epsilon Member, Columbia AI Alignment Club, SEO Career, ColorStack, Society of Hispanic Professional Engineers (SHPE), Columbia Poker Club

EXPERIENCE

Hangry

Sept 2025 – Dec 2025

Software Engineer Intern

New York, NY

- **Led a 3-person team** to deliver a React Native iOS app from MVP to **TestFlight/App Store-ready release**
- Built core features (**auth, real-time messaging**), integrated **MapKit & Yelp APIs**, created a **web-scraping pipeline**, and automated testing/builds with **GitHub Actions**

Stripe

June 2025 – August 2025

Software Engineer Intern

New York, NY

- Designed and tuned an **ML model** to select retry timing/eligibility, using historical payment outcomes and feature engineering to improve decision quality
- Integrated the ML model into a **smart scheduled retry workflow** for failed Stripe Balance-funded payments using **serverless jobs**; deployed safely with **feature flags** and **circuit breakers**
- Built **observability** for the retry system (dashboards/alerts), tracking recovery rates/failure reasons to drive model and policy iterations

SideShift

September 2024 – December 2024

Software Engineer Intern

New York, NY

- Improved an **ML candidate ranking model** for business recruiting, increasing hires by 35%
- Reduced page load time **53%** as the platform scaled from **1K+ to 50K+ users** by implementing **CDN delivery, image caching, and compression**
- Integrated **Google & Apple OAuth** login, improving **Day-1 retention by 48%**

Sponsors for Educational Opportunity

June 2024 – August 2024

Software Engineer Intern

New York, NY

- Trained a **custom CNN model with 97% accuracy** on a dataset of 100k+ labeled ASL hand gesture images
- **Integrated Google Text-to-Speech API** to convert predicted ASL text into MP3 audio playback
- Delivered a real-time web demo (**React & Flask**) with **<200ms** predictions

PROJECTS

MuseLink | Springboot, GCP, AWS, PostgreSQL, React

- **Led a team of 4** using agile methodology to build a **full-stack cloud service** that links local artists with event organizers
- **Designed REST APIs** with third-party integrations (Google Calendar, Stripe) to support a React-based UI
- Deployed microservices and databases using **AWS** (EC2, ECS, RDS) and **GCP** (Compute Engine, Cloud SQL)
- **Built logging middleware** to track route usage and errors, and **authored OpenAPI specs** for all microservices

TECHNICAL SKILLS

- **Languages:** Java, Ruby, C, Python, SQL, JavaScript, TypeScript, PowerShell
- **Technologies:** AWS, Google Cloud, Azure, Springboot, React, Flask, PostgreSQL, MySQL, Firebase
- **Hackathons:** Columbia DevFest (2), Columbia DivHacks (3), Columbia x Dedalus

LEADERSHIP & AWARDS

- **Advanced Software Engineering Head TA** (Spring 2025; Fall 2025)
- **Bridgewater x Metaculus Forecasting Contest:** Top 1% (2025), Top 5% (2024); cash prize winner; 3000+ competitors
- **Algorithmic and Manual Trader IMC Prosperity Challenge:** Top 3% (2023, 2024); 5,000+ competitors