

John Mauricio

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EDUCATION

- University of California, San Diego** San Diego, CA
 - Bachelor of Science in Data Science (Machine Learning); GPA: 3.67* *September. 2019 – May. 2023*

EXPERIENCE

- Costar Group** Irvine, CA
 - Fullstack Software Engineer (E-Commerce Team)* *July 2023 - Present*
 - **Achieved a 46x throughput increase (173 → 8K listings/min)**, re-architecting a Hangfire job into a horizontally scalable, fault-tolerant .NET Background Service with a SQL-backed queue that precomputes listing-specific pricing in real time
 - **Built and standardized a custom Claude Code agent skill adopted team-wide** that pulls Azure DevOps work items via Azure CLI, scaffolds code changes, pushes PRs, and notifies reviewers in Microsoft Teams
 - **Cut engineering time 63% (195 of 310 hours)** directing a spec-driven development modernization with **Claude Code** of a decade-old auth platform to **React 19, TypeScript, and Vite**
 - Enabled **167 additional ecommerce transactions** and **\$461,160 in annualized revenue** by building a backend system that detects asset price changes using **ASP.NET Core, CoStar Sync (Kafka-based ETL), Hangfire, and SQL Server Jobs**
 - Reduced **API response times by 95%** and **page load times by 1.5 seconds** for all advertising products by optimizing the pricing backend service using caching with **Memcached and Redis**
 - **Enabled 20,000+ weekly pricing requests and asset evaluation for 600,000+ listings** by **designing and leading the development of a backend system** using **.NET Core and SQL** for real-time asset valuation
 - **Supported 70,000+ annual sign-ups across 20+ internationalized locales** as the sole developer of a legacy registration service using React and Express
 - Led the shift from legacy payment processors to **Stripe** for LoopNet Ad transactions, processing **\$4 million in annual gross sales** and migrating **11,000+ accounts**
 - Processed **10,000+ daily pricing requests** by designing and developing a **cloud-native .NET 8 microservice** using **Kubernetes** with ASP.NET Core Web API, Entity Framework Core, and Apache Kafka event streaming
- Symba** San Francisco, CA
 - Data Science Intern* *June 2022 - July 2023*
 - **Eliminated manual effort by 50% and improved invoicing accuracy** by automating monthly headcount billing notifications using **GitHub Actions and Python**
 - Developed **Python data preprocessing scripts using pandas** to clean and transform usage and billing data, standardizing inputs for analytics and reporting
 - Built interactive dashboards in **Metabase using SQL** on relational databases to track product and business KPIs, enabling data-driven decisions for leadership and customer success teams
- ID Tech Camps** Remote
 - Course Instructor* *Summer 2023*
 - Introduced applied machine learning concepts using **scikit-learn (classification, feature engineering)** and integrated **data preprocessing pipelines** to simulate **lightweight production ML workflows**
- UC San Diego** La Jolla, CA
 - Machine Learning Researcher* *June 2022 - July 2022*
 - Developed **computer-vision-based image segmentation models** using **TensorFlow and OpenCV**, integrating data pipelines to analyze **real-world sensor data** and evaluate **model accuracy**

PROGRAMMING SKILLS

- **Languages:** Javascript, C#, Java, Python, SQL
- **Technologies:** React.js, Next.js, TypeScript, Node.js, ASP.NET Core, REST APIs, GraphQL, SQL, PostgreSQL, MongoDB, Docker, Kafka, Azure, AWS, Pandas, Sci-kit Learn, Metabase