Daniel Astudillo

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EDUCATION

Williams College   Williamstown, MA
Bachelor of Arts in Computer Science and Mathematics   *June 2022*

EXPERIENCE

Software Engineer   September 2022 – February 2025
Visa Inc.   *Miami, FL (Hybrid)*

- Contributed towards delivery of the Visa Performance Processing Monitor (VPPM), an online tool used by several banks across Latin America to monitor Visa Debit/Credit transaction metrics.
- Learned .NET development to migrate critical Visa Card Eligibility Services (VCES) legacy components to .NET Core 6.0, reducing API response times by 10-15% on average (impacting 20M+ requests per month) and addressing 10+ years of technical debt.
- Implemented an Apache ActiveMQ message producer in .NET Core 6.0 for VCES via the Amqp.Net library and AMQPS protocol.
- Developed a Docker image running Apache ActiveMQ Artemis v2.29.0 on CentOS 7 for Apple Silicon and Intel architectures.
- Learned Spring Boot and Batch to support LAC regional priorities through development of critical components for the Visa Digital Benefits Platform (VDBP).
- Developed a full stack web application from scratch using Next.js, TypeScript, and React to replace the existing Visa Click to Pay destination site, enabling 10M+ registered users to safely manage payment credential information.

Software Engineer Intern   June 2022 – August 2022
Wayfair Inc.   *Boston, MA (Hybrid)*

- Collaborated with the Sales 360 Engineering-Distribution team to address critical functionality gaps and ensure seamless deployment of features.
- Leveraged the unittest python framework to write comprehensive unit tests and achieve 100% code coverage of critical backend APIs.
- Implemented novel raw data transformations to optimize input features for existing sales recommendation engines, improving prediction accuracy by 20% on average.
- Upgraded the Sales Phone Call Routing Service to leverage an internal, high performance Crucible routing client, accelerating connection times between sales agents and customers by 30%.

Software Engineer Intern   September 2020 – July 2021
RestEasy Technologies, Inc.   *Remote*

- Learned about MERN stack development and deployment of production-grade web applications.
- Deployed AWS EC2 instance with NGINX reverse proxy facilitating simultaneous backend and frontend delivery on unified ports.
- Enhanced platform's media management by incorporating AWS S3, facilitating a 20% reduction in upload processing times.
- Implemented payment processing system using Stripe Payments API, facilitating fundraising capabilities for 250+ registered users.
- Enhanced backend performance using MongoDB Bulk operations, streamlining database interactions to reduce API latency by 15%.

TECHNICAL SKILLS

Languages: Java, C#, JavaScript, Typescript, HTML/CSS, Python.
Frameworks: Spring Boot, .NET Framework 4.x, .NET Core 6.0, React, Node.js, Next.js, Angular, AWS EC2, Amazon S3, JUnit, Mockito, Jest, Tailwind CSS, unittest, pytest.
Developer Tools: Git, Docker, Jenkins, Postman, MSSQL, NGINX, Turborepo, JetBrains IDEs (IntelliJ, Rider, DataGrip, WebStorm), VS Code, Visual Studio, Cursor IDE.