Saul de Nova Caballero

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Work Experience

Microsoft August 2020 – Current
Senior Software Engineer *Windows CI Services team*

- **Lead the rollout** of our internal product to **around 500 customers**. Worked with our PM team and a sister Dev team to create trainings, office hours, and an internal team of champions to make sure our product rolled out to all of our customers smoothly. So far, we've **increased customer NSAT by 28 points**.
- **Collaborated with 3 external teams** to reduce our build times from **6 hours to 3:30 hours** (42%) E2E for P80 by increasing the effectiveness of our cache infrastructure.
- **Lead a team of three developers** to reduce the internal overhead of the Windows CI build system. Started at around 1hr 20 mins for the average build, **we ended up with an overhead of 30 mins** (62%).
- **Onboarded three junior engineers to the team**. They contributed to the team by adding key components such as: improved incident detection, early incident notification, and improved integration testing.
- **Trained** both **internal and external teams** on good practices for on-call, testing, and deployment.
- Worked with Microsoft recruiting for Mexico and Latin America to interview 20 candidates.
- Implemented several month long projects such as: an optimization that involved **rewriting a parser and optimized 10 minutes of overhead time**; **a replacement of our VHD patching** leveraging a project from another team that allowed us to parse multiple image types; **Designed and implemented** a component that made it possible to **reclaim** 60% — 70% **of our build machine capacity**.

Microsoft August 2018 – August 2020
Software Engineer II *Windows CI Services team*

- **Redesigned several components** of the Continuous integration system for Windows source code contributors. **Improved average system overhead** from 1 hr 30 mins to 20 mins (78%). This was achieved by moving our legacy system **into Azure and creating a set of microservices**. The legacy system was based on local machines, file shares and several powershell/batch scripts. The new system was designed with a **cloud first mentality** and employs **microservices and REST API/Service Bus endpoints** for communication with our online pipeline.

Microsoft August 2016 – August 2018
Software Engineer *Windows BuildXL conversion*

- Made a transpiler that translated all of the existing makefiles in the Windows repository (70k files) from a proprietary XML into TypeScript. The transpiler had to translate around 10k lines in five minutes every day during our nightly builds.
- Coded part of the SDK for BuildXL and **onboarded seven engineers** in the usage and standard of the language and SDK.

Senior Consultant Developer | *September 2014 – August 2015* Grupo BMS

Microsoft | *May 2013 – August 2015* Software Engineering Intern × 3

Education

Tec de Monterrey (ITESM), State of Mexico May 2016
B.S. in Computer Science and Engineering *Honorable Mention 3.68*

Technical Skills (machine friendly)

C# (Advanced), Java (Advanced), C++ (Intermediate), Python (Intermediate), Kusto query language (Intermediate), Azure (Advanced), Azure functions (Advanced), Azure ServiceBus (Advanced), Cosmos DB (Intermediate), Microservices (Advanced), Serverless (Advanced), OOP (Advanced), Distributed Systems (Advanced), API design (Advanced), Message queues (Intermediate), Telemetry (Intermediate), SQL (Intermediate), NoSQL (Intermediate)