Jayden G. Sadettan

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Education

University of Washington, Seattle WA — *September 2015 – December 2019*

- U.W STARS Engineering Program
- Department: **The Paul G. Allen School for Computer Science & Engineering**
- ACM Richard Tapia Celebration of Diversity in Computing 2018 Scholarship Attendee

Skills & Projects

Languages
- C#, MySQL, Java, Python

Software
- Visual Studio, RabbitMQ, .NET, Jenkins, PyCharm, Git, WSL, Microsoft Azure Database

Concepts
- Payment Reconciliation, Accounting ledger, Microservices, MVC, Dapper, Distributed Systems

Projects
- Pi Girl2: Handheld gaming emulator made with a Raspberry Pi 3, 3D printed case, holds 128 GBs of games.

Employment

Tesla Sr. Software Engineer, Bellevue, WA — *October 2021 – Present*

Fintech Services: Payment Recon
- **Project**: Upgraded our infrastructure via RabbitMQ and Polly Retries.
- Designed a new Delayed Messenger flow within our system. This allowed us to retry payments that did not match with the customer on the first occurrence. Improved match rate above 95% and significantly lowered business manual processing.
- Implemented Polly Retries via a custom HTTP Client and Policy Manager. API calls between services failed which led to 100's of manual reprocessing daily. Brought the count down to less than 5 per week.
- Onboarded a new split payment flow to allocate fees and credit when a customer buys a Wall Charger with their car reservation.
- **Highlights**: Stepped up to manage the team for 6 weeks while our lead was on PTO. Led scrum, business priorities, and check-ins with each team member to ensure they had everything they needed.
- **Skills and Tools**: .NET, S3, RabbitMQ, MySQL Dapper, Polly.

Tesla Software Engineer, Bellevue, WA — *April 2020 – September 2021*

Fintech Services: Payment Recon
- **Project**: Improved Offline Payment Reconciliation flow by reducing the number of hops between microservices by reducing the amount of API calls and using a SPROC.
- Onboarded a new Korean bank, KCP. Worked with their developer and government to create a SFTP folder for Tesla to access from whitelisted IP addresses.
- Migrated our Linux/Docker containers to a K8 space. Added S3 dependency to keep track of files as we were unable to use NFS.
- **Highlights**: Onboarded the China market (WeChat, Alipay, & SPOS). Worked closely with sister CN Recon team. Led K.T. and a localization project within Tesla to keep Global and China data separated. New DB, K8 pods, and deletion of all CN data in Global space. Led an audit with CN government to ensure PII was localized. This led to my interest in the language, over 400-day streak in Duolingo.
- **Skills and Tools**: .NET, S3, RabbitMQ, MySQL Dapper.

Qualcomm Software Engineer Intern, San Diego CA — *June 2019 – September 2019*

QCT Product & Tools Stability Test
- **Project**: Tasked with creating a testing application that utilizes the Computer Vision aspect on Qualcomm's newest SoC.
- **Highlights**: Developed the application using dynamic linking in C++, then used Java's Native Interface to port it over to an Android APK. Developed a concurrent way to test out Computer Vision Algorithms.
- **Skills and Tools**: C++ for native code development, Java for APK, CMake, & First Android APK.
- **Additional**: Placed 2nd place in Qualcomm's intern hackathon that saw over 300+ intern participants. Had the opportunity to present to Qualcomm's executives on my team's project.

T-Mobile Software Engineer Intern, Snoqualmie WA — *June 2018 – May 2019*

Tier 2 Diagnostic Systems, Technology
- **Project**: Created an automation synthetic test suite that utilizes REST commands to have a continuous customer experience on all flagship devices
- **Highlights**: Reduced the original test time over 95% by running the test concurrently. 1 hour → 2.5min, was the only intern that had the opportunity to present their final product to a broad T-Mobile audience at their conference in Dallas, TX.
- **Skills and Tools**: SQL, Python, Grafana, Influx.
- **Additional**: Develop an application for a T-Mobile Event for over 300+. First time deploying a web app to a Kubernetes cluster. Used: SQL, Python, Flask, Kubernetes, Website deployment.

Microsoft Software Engineer Explorer Intern, Redmond WA — *June 2017 – September 2017*

Windows Core Dev, DEP R&D
- **Project**: Develop a native SplitButton control within the XAML control base for UWP apps. Roles switched from Program Manager, Developer, and Tester.
- **Highlights**: In the P.M. role I learned several things such as accessibility, and end user experience. Had the opportunity to meet with other Orgs on how they can use our product. (Xbox, Edge, & Office).
- **Skills and Tools**: C# for prototype, C++ for main control development, & XAML for the frontend. Main priority was writing black and white box testing for our new control.