Adrian De La Torre

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A product-minded software engineer that thrives on tackling challenges in a collaborative work environment.

Skills

Languages: C#, Python, C++, C, MATLAB, Verilog
Technology: .NET, WPF, Appium, NUnit, Ninject, Git, Atlassian Suite
Other: Spanish Fluency

Experience and Activities

Software Engineer II at PacBio Jul 2022 - May 2024
Software Engineer I at PacBio

- Contributed to the integration of a major FW (C#, C++, CANBUS) refactor for crucial high speed stepping stage component that gave way to increases in stability and performance
- Assisted internal lab users in developing scripts (Python) that leveraged DLLs to operate and monitor fluidics of the sequencing instrument
- Improved on sample sheet pipeline, from customer input parsing and validation (WPF, MVVM, C#) to primary analysis (NuGet) handoff
- Designed schema (XSD) for mapping reagent plate positions that a 3D Festo gantry navigates to
- Upgraded communication with new C# API versions of Festo and Aerotech controllers
- Created a stable conference demo version of sequencing software that was in use for 2 years with no patches required, allowing a greater focus on feature and patch releases
- Supported verification of major customer releases (Xray for Jira, Excel); triaging, fixing bugs, and testing as required

Software Test Engineer I at PacBio Mar 2022 - Jul 2022

- Improved testing efficiency by creating end to end tests (Python, Appium) for sequencing software and engineering UI
- Collaborated with developers to isolate root cause of bugs by inspecting software logs (log4net) and determining reproducibility
- Gathered and documented feedback (Confluence) from internal lab users for our software application suite

Technology Intern at Brandes Summer 2018

- Visualized data (SSRS) describing time allotment for company tasks to give insight into resource management

Education

University of California, Riverside Riverside, CA
B.S. in Computer Engineering Sep 2017 - Jun 2021