San Diego, CA
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Adrian De La Torre

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A product-minded software engineer that thrives on tackling challenges in a collaborative work environment. Known for innovative problem-solving and delivering high-quality, reliable software solutions under tight deadlines. Contributed to the successful launch of the commercial software suite for Onso, the first short-read sequencer from PacBio.

Skills

- Languages: C#, Python, C++, C
- Technologies: .NET, WPF, Appium, NUnit, Ninject, Git, Atlassian Suite
- Other: Spanish Fluency

Experience

Software Engineer II — **PacBio** — **Feb 2024–May 2024**
Software Engineer I — **PacBio** — **Jul 2022–Feb 2024**
Software Test Engineer I — **PacBio** — **Mar 2022–Jul 2022**
Instrument Control Software team — San Diego, CA

Quickly demonstrated proficiency as a developer, emphasizing strategic thinking and effective communication with external teams. Played a key role in various projects, notably contributing to the achievement of a successful market launch.

- Led the software integration effort of a major firmware (C#, C++, CAN bus) replacement of high speed stepping motion control that resulted in reduced scan times and increased stability
- Facilitated the development of Python scripts utilizing 'pythonnet' to integrate APIs, enabling direct contributions in operating and monitoring fluidics of the sequencing instrument
- Improved on sample sheet pipeline, from customer input parsing and validation (WPF, MVVM, C#) to primary analysis C# interface
- Overhauled gantry system to externalize the coordinate mapping system with a flexible external file based approach
- Upgraded communication with new versions of Festo (TCP/IP) and Aerotech (C# DLL) motion controllers
- Created a stable conference demo version of sequencing software that was in use for more than a year with no patches required, allowing a greater team focus on feature and patch releases
- Verified major customer releases (Xray for Jira, Excel); triaging, fixing bugs, and testing as required

Joined PacBio to uphold software stability and enhance user satisfaction through meticulous manual and automated testing within a dynamic, high-pressure environment.

- Built multiple e2e tests covering various user workflow interactions with desktop sequencing software using Python and Appium
- Collaborated with developers to isolate root cause of bugs by inspecting software logs, determining reproducibility, and providing detailed steps to reproduce (Jira)
- Gathered and documented feedback (Confluence) from internal lab users for our software application suite

Technology Intern — **Brandes Investment Partners** — **Summer 2018**
San Diego, CA

- Visualized MySQL data describing employee time allocation for company tasks, leveraging SQL Server Reporting Services (SSRS) to provide valuable insights into company resource management through custom queries

Education

- **B.Sc. Computer Engineering,** University of California, Riverside. **2017-2021**