

Jonathon Lin

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Professional Experience

2022 – PRESENT

Software Engineer | NASA

- Designed and developed an emergency simulation tool for astronauts and flight controllers using JavaScript and .NET, **improving crisis response training accuracy and realism.**
- Optimized the psych support uplink system, reducing transmission time by **~5 minutes per instance**, enhancing crew support efficiency.
- Implemented backend improvements that reduced recurring developer errors, **cutting debugging hours by ~20%.**
- Modernized a mobile task management app by migrating from Xamarin to MAUI, **resulting in a 30% faster load time and significant improvement in UI usability and search performance.**
- Co-led enhancements to an ISS inventory tracking tool in C# and JavaScript, **improving item retrieval time and reducing search-related errors for onboard crew.**
- Led sprint planning and retrospectives under Agile, resulting in a **20% improvement in team delivery velocity** over 6 months.

2019 – 2022

Software Engineer | Quorum Software

- Delivered high-impact cloud-based tools for oil & gas clients, streamlining operations and driving adoption across **10+ enterprise deployments.**
- Utilised continuous integration using Azure Pipelines, automating patch and hotfix deployments to **reduce delivery time by 40%.**
- Conducted rigorous unit testing and cross-environment debugging, improving product stability and lowering post-release bugs by **~25%.**
- Revived and maintained legacy codebases, accelerating onboarding of new developers and restoring critical functionality across **2 core products.**
- Provided SQL performance consulting, resolving high-priority issues and **reducing query runtimes by up to 80%** for internal and client-facing systems.

2017 – 2019

Frontend Engineer | Shipwell

- Rebuilt key logistics web interfaces in React, contributing to a **40% increase in user retention** by improving responsiveness and visual clarity.
- Collaborated with UX designers to overhaul **75% of the legacy site**, incorporating user feedback and prototyping tools to ensure feature adoption.
- Integrated Electronic Logging Device (ELD) data, enabling real-time visibility into fleet status, location, and speed – a feature now used by **100% of dispatch users.**

Technical Skills

- **Programming Languages:** C#, JavaScript, Python, SQL
- **Frameworks & Libraries:** React, Ruby on Rails, Capybara, Jest, PyTorch
- **Databases:** MSSQL, PostgreSQL, PL/SQL
- **Tools & Technologies:** Git, AWS (learning), Azure
- **Development Practices:** Agile, CI/CD
- **Mobile:** Kotlin, React Native, MAUI, XAMARIN

Education

2020 - 2022

Master of Science – Computer Science | The University of Texas at Austin

2011 - 2015

Bachelor of Science – Mechanical Engineering | Carnegie Mellon University