

# Jay Janodia

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Portfolio: <https://jayjanodia.netlify.app/>

## TECHNICAL SKILLS

- **Languages:** Advanced: Python, MySQL, C# Intermediate: R, MATLAB, Java, Shell, PostgreSQL Basic: NoSQL, C, C++
- **Libraries:** Pytorch, Tensorflow, Matplotlib, NumPy, Pandas, Scikit-Learn, NLTK, OpenCV, SciPy, Seaborn, SpaCy
- **Web Development:** Advanced: HTML, CSS, JavaScript, Flask, WPF, Winforms Intermediate: Bootstrap, TypeScript, Jest, ReactJS, AWS Basic: NodeJS

## WORK EXPERIENCE

### Sonix | Software Developer | Fairfax, VA

July 2024 - Present

- Led the enhancement of UI functionality, integrating key components and improving transducer list visibility, directly impacting usability for over ~1,500 active enterprise users.
- Architected and implemented comprehensive process guides, aligning cross-functional team objectives with business goals, resulting in a 20-hour monthly productivity increase.
- Spearheaded performance optimizations by refining code logic and enforcing best practices, leading to measurable improvements in system efficiency and maintainability.
- Provided technical mentorship, proactively resolving blockers, optimizing team workflows, and fostering a culture of collaboration and continuous learning.
- Strategically managed task execution, consistently meeting or exceeding deadlines while balancing critical priorities and cross-team dependencies to drive project success.
- Ensured code reliability and maintainability by implementing rigorous testing strategies, including unit, integration, and regression testing, reducing production issues and enhancing system stability.

### Elegen | Software Developer | San Carlos, CA

June 2022 - March 2024

- Enhanced system functionality through REST APIs, improved database structure, resolved UI issues and integrated AWS capabilities to address bottlenecks by leveraging AWS lambda functions to improve execution speed by 15x/1500%.
- Introduced a feature for clients to search genes efficiently and developing a customer-centric solution for viewing data, accelerating results delivery from 10 minutes to a couple of seconds. Automated data retrieval for 60 clients using Python, PostGres and Shell Scripting, and assisted them in generating custom data files ahead of time.
- Developed and executed end-to-end unit tests for LIMS while implementing manual test ordering, reducing the risk of test failures. Test cases utilized by 3 employees, ensuring data accuracy, functionality, and workflow efficiency while adhering to best practices with universally-accepted formatting, robust exception handling, and clear code documentation.

### Amazon | Software Development Engineer 1 | Sunnyvale, CA

May 2022 - March 2023

- Improved Amazon Developers' Datapath product using HTML, CSS, JS, React, Java and TypeScript resulting in improved customer experience and increased product stability for ~100,000 users.
- Migrated from a proprietary platform to Typescript using Python for automation and GraalVM as a Java VM to run JavaScript and TypeScript code reducing the installation time for the customer from 15-30 minutes to a few seconds.
- Built a Unit-testing module using Shell Scripting and Java based on Jest framework, leading to a 5x/500% reduction in unit testing cycle time for Amazon Developers. Also provided on-call support for the Datapath platform for 6 months, resolving 20+ Sev-2 tickets and 100+ Sev-3 tickets related to product stability using Shell Scripting and Log Monitoring searching through 20GB+ of data.

### Tata Consultancy Services | Development Intern(AI Engineer) | Pune, India

Dec 2019 - March 2020

- Automated Service request resolution for augmentation for demanding workloads reducing the rate of failure by 50%.
- Automated ticket analysis to determine the scope of augmenting and triggering the infra-addition using Python, Ansible and vSphere APIs, leading to reduction in the resolution time from 30 minutes to a couple of minutes.

## EDUCATION

Master of Science, Computer Science and Engineering, Santa Clara University

March 2022

Bachelor of Engineering, Computer Engineering, Pune Institute of Computer Technology

June 2020