Cynthia Lee

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Education

B.S. in Computer Science, University of California, San Diego 2014

Relevant Courses: Algorithms; Data Structures; Programming Languages; Compilers; Software Engineering; Server-side Web Applications; Database Systems; Artificial Intelligence; Image Processing; Computer Graphics; Computer Security; Project Management

Skills and Qualifications

Intermediate: Java, C#, .NET, XML, XSL, Visual Studios, Windows, Agile development methodology, Perforce
Beginner: JavaScript, Eclipse, HTML, CSS Prior experience: SQL, PHP, Python, C++, C, MySQL, Linux, OpenGL

Professional Experience

Software Engineer at Genomic Health **August 2016 – present**

Developing and maintaining business integration system

Software Engineer at Becton Dickinson (formerly CareFusion) **June 2013 – June 2016**

Designed and improved an in-house test automation application

- Developed a framework to support automated testing for infusion pumps. This enabled the software quality team to perform automated testing of the infusion devices efficiently and reduce test time and human errors.
- Implemented a communication channel between the automated test application and the infusion system's server. This enabled the software quality team to perform automated testing of the entire infusion system as a whole, rather than testing each component separately. Tests include testing of individual infusion devices, docking station, system server, and web portal.
- Developed an automated UI verification feature for testing installer applications. This reduced hours that software quality engineers need to spend to test installer applications for multiple PC products across different supported environments.
- Created notifications for test automation application, offering different options for notifications through email or SMS. Used by engineers to remotely monitor test progress and get notified on test completion, test failure, or breakpoint reached.
- C#; Smart Bear/Code Collaborator for code reviews

Designed and developed an error monitoring tool for automated tests running on 500 Virtual Machines

- Created a lightweight application to run on each VM to parse error output into XML. Developed a separate application to periodically collect the XML logs and display to a web application.
- Created a web application to easily monitor all 500 stations, including options to filter content by timeframe and keywords. Logs are populated dynamically based on user selections to reduce load time and improve visibility of relevant content. This tool allows engineers to monitor all the test stations from one location and identify any trends in the errors produced during testing.
- C#, HTML, CSS, JavaScript, XSL

Worked closely with embedded engineers on debugging and R&D on an infusion connectivity system

- Created an application to enable remote infusion functionality. This was the first step to supporting test automation for this product. Led to the elimination of manual testing, and reducing test time from weeks to days.
- Redesigned the system web portal, including implementation of a password protection feature to improve product security, fixed numerous bugs, and completed other product enhancement feature requests from customers.
- C#, C++, HTML, CSS, JavaScript