

Paige Julianne Sullivan

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Experience

Johns Hopkins Bloomberg School of Public Health

Programmer Analyst, Major Extremity Trauma Research Consortium

August 2020 – May 2025

- Directed all technical operations for data collection across more than two dozen clinical trials, supporting 1,800 site users at over 50 research centers and managing data for more than 150,000 study participants.
- Administered, supported, and enhanced the REDCap (Research Electronic Data Capture) system. This included developing data collection forms based on study protocols, configuring email and SMS alert systems, and extending core REDCap functionality with custom-built extensions.
- Managed server infrastructure, including data collection servers running Apache, PHP, and MariaDB on Red Hat Enterprise Linux, and a public-facing website and email server using Plesk on Ubuntu Server.
- Ensured system security by applying patches identified in monthly audits and implemented a comprehensive backup and recovery system for all code and data.
- Contributed to the open-source community by developing and releasing extensions for the REDCap platform. Notable contributions include an extension to dynamically embed PDFs within data collection forms and a time-saving browser extension for efficient navigation in large REDCap projects.
- Elected to two consecutive one-year terms on the Bloomberg School of Public Health Staff Assembly, serving on the Employee Relations Committee.
- Appointed to a university-wide HR working group focused on improving staff retention.

Target RWE

Senior Software Engineer

August 2019 – August 2020

- Oversaw the operations of the REDCap (Research Electronic Data Capture) system to support Phase IV post-marketing surveillance clinical drug trials.
- Enhanced the REDCap system by engineering and implementing integrations with a commercial drug database and a comprehensive list of medical diagnoses.

- Provided dedicated end-user support for a team of over 50 medical transcribers and six data analysts.

IBM

Senior Software Engineer

February 2019 – August 2019

- Ported the Wazi plugin for VSCode, which supports COBOL development on the IBM System Z mainframe, to run in the Theia web-based IDE.
- Developed exclusively in TypeScript to achieve the successful migration of the plugin.

Experience prior to 2019 available upon request

Selected Skills

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| • AJAX | • Netdata (monitoring) |
| • Amazon EC2 | • PHP |
| • Amazon RDS | • PhpStorm |
| • Amazon S3 | • Plesk |
| • Apache HTTPD Server | • Python |
| • API client implementation/use | • Red Hat Enterprise Linux |
| • API server implementation | • REDCap |
| • Bash Scripting | • REDCap External Module Development |
| • Browser Extension Development | • REDCap Hook Development |
| • Clinical study protocol implementation | • S3-compatible storage |
| • CSS | • Sendmail |
| • FDA 21 CFR Part 11 compliance | • SFTP |
| • Good Clinical Practice (GCP) | • SharePoint |
| • HIPAA Business Associate Agreements | • Slack |
| • HIPAA security compliance | • SMS |
| • HTML | • SMS Campaign Registration |
| • IT Policy Management | • SQL |
| • JavaScript | • SSH |
| • JSON | • SSL Certificates |
| • Linode services | • Technical Writing |
| • MariaDB | • Ubuntu Linux Server |
| • MySQL | • WordPress |