

# Madeline Ashley | Full-Stack Software Engineer

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## SUMMARY

Fueled by curiosity and an unrelenting desire to build and discover, I've spent over a decade dissecting complex technical problems in the Biotech and AEC (Architecture, Engineering and Construction) industries. My current aim is to integrate my technical expertise into the strong interest I have in the arts; to solve interesting problems by building uniquely beautiful products that delight and inspire users.

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## TECHNICAL SKILLS

HTML | CSS | Javascript | React | Node | Relational & Non-Relational Databases | Express | Git | Github | Python | Deployment | Regex | Atlassian Suite | Lab Automation & Robotics | Device Control & Drivers | 3D Modeling & Printing

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## SOFTWARE ENGINEERING PROJECTS

**FLASH** | Interactive Browser-Based Game - Solo Project [Live](#) | [Github](#)

- Designed, built, and deployed a fully-functional Simon-inspired game using HTML, CSS, and Javascript.

**MEET YOUR MAKER** | MERN Stack Concept App - Solo Project [Live](#) | [Github](#)

- Designed, built, and deployed a full stack app serving as a mock directory and project showcase for local creators and makers.

**REVINYL** | PERN Stack Concept App - Group Project [Live](#) | [Github](#)

- Designed, built, and deployed a full stack app serving as a mock eCommerce platform and personal vinyl tracking library for audiophiles.

**LITTERLOGIC** | PERN Stack Concept App - Solo Project [Live](#) | [Github](#)

*Designed, built, and deployed full stack app and prototype IOT device to track cat litter box usage and provide comic relief.*

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## WORK EXPERIENCE

**Automation Reliability Engineer / Lab Automation Engineer**

Invitae

San Francisco, CA

2020 - 2022

- Built and launched into Production 4 Automated lab systems comprising 15+ independent devices by floor-planning, installing/unifying instrumentation and adapting system procedures and scripts to suit purpose.
- Steered a company-wide project to standardize a fleet of over 50 lab PCs and upgrade connected instrumentation. Eliminated lab dependence on EOL operating systems, thereby mitigating security vulnerabilities.
- Overtook a 100-unit production run of proprietary image capture devices used by domestic and international sample accessioning teams. Sourced device components per schematic design and budget constraints. Created long-term equipment tracking strategy and technical documentation to ensure program longevity. Deployed capture software to clients using Desktop Central.
- Built and maintained multiple team dashboards to streamline Jira Ticket Assignment, clarify delegation of tasks, and improve data visualization. Used tableau to track lab trends, and implement strategies to minimize instrument downtime.
- Acted as PagerDuty administrator for a team of 20 automation engineers. Configured equipment services and event rules for efficient incident management, and downstream data visualization, assigned user schedules and maintained escalation policies to ensure timely response to equipment failures.

**Sr. Software Applications Analyst/ Sr Technical Specialist**  
Bluebeam

Chicago,IL/Pasadena, CA  
2015 - 2020

- *Supported annual, quarterly and biweekly product release cadences as liaison between Tech Support, Engineering and Product teams. Using Agile methodologies, collaborated with multiple teams to drive prioritization of bug fixes and feature enhancements within Bluebeam's suite of offerings. Provided data-based input on issue prioritization in weekly grooming meetings.*
- *Validated user-reported application issues and identified root causes in product source code. Supported investigations by analyzing data hosted in connected AWS databases and Network tracing applications.*
- *Led bi-weekly pulse meetings with Technical Support Senior Managers to gauge customer sentiments on the product, and illuminate pain points experienced by product support teams. Communicated findings to Engineering and Product Teams for further action.*
- *Participated in rigorous product testing in preparation for periodic releases.*
- *Served as first-in-command during acting manager's 4-month leave, taking on additional duties to lead team of 5.*
- *Led a 12-person committee responsible for preparing internal teams to support new technologies and emerging products/product features.*

**Field Automation Engineer/Preventative Maintenance Technician**  
Tecan Ltd

Covered territory spanning the US & Canada  
2012 - 2015

- *Executed between 2 and 7 site visits per week Installing FreedomEVO robotic liquid handling platforms in a wide variety of job-sites including but not limited to: pharmaceutical labs, academic research institutions, government facilities and emerging tech companies.*
- *Diagnosed hardware and software issues via on-site testing, wrote custom scripts to suit customer-defined automation tasks, provided ongoing post-installation application support.*
- *Provided tailored customer training on liquid handling platforms and plate reading instruments.*
- *Visited a wide variety of users and job-sites across the US and Canada traveling 5-6 days a week on short notice, keeping an appropriate parts inventory, and reviewing schedule and responsibilities continuously based on projected tasks and their priorities.*

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## EDUCATION

**Certificate, Software Engineering**  
General Assembly

Remote  
09/2022 - 12/2022

- *Full-stack software engineering immersive student in an intensive, 24-week, 450+ hour program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies. Developed a portfolio of individual and group projects.*

**Bachelor of Science, Biology**  
Depaul University  
Chicago, IL  
Dean's List, Woman of Spirit and Action Award

Chicago, IL  
2004 - 2008