

# Peter Hardy

Chicagoland Area  
847-707-4866  
[PeterPHardy@gmail.com](mailto:PeterPHardy@gmail.com)

Senior Software Engineer seeking a role where I can utilize my technical skills to create business solutions that optimize cost and workflow efficiency. Experienced in Infrastructure as Code (IaC) and CI/CD implementations. I excel in Agile and Scrum settings and I am committed to continuous learning.

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**LinkedIn:** <http://linkedin.com/in/peterphelpshardy> | **Github:** <https://peterhardy22.github.io/>

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## // SKILLS

Java	Python	Powershell
C#	Azure	AWS
MySQL	PostgresSQL	MongoDB
Git	Flask	Splunk

## // EDUCATION

- **UC Berkeley Extension** **Berkeley, CA | 2019**
  - Software Development & Data Engineering
- **DePaul University** **Chicago, IL | 2008-2012**
  - BA in Art History

## // CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified Developer - Associate
- Splunk Core Certified User
- Microsoft Azure Data Fundamentals
- Microsoft Azure AI Fundamentals
- Microsoft Azure Security Fundamentals

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## // PROFESSIONAL EXPERIENCE

### Federal Home Loan Bank of Chicago

**Chicago, IL | 2021 - Current**

*Over time I increased my engineering skills to harness the power of automation for integrating hybrid cloud and on premises environments. In addition, I was responsible for implementing production deployments and focusing on cost savings through the elimination of manual processes.*

### Cloud Automation Engineer

- Updated IaC best practices on the team, reducing time-to-production by 25% and enhancing collaboration and disaster recovery preparedness, resulting in smoother and more efficient deployment processes.
- Championed a CI/CD mindset, resulting in a reduction in post-release issues and increase in team productivity through automated testing and deployment workflows.
- Utilized AWS Lambda and Azure Functions to develop serverless architecture patterns, decreasing team infrastructure costs by 15% and enhancing overall application agility and responsiveness.

- Advocated for the adoption of new and improved automation processes by presenting detailed Change Requests to the Change Advisory Board, securing approvals for implementation into the production environment.
- Actively contributed to the success of agile development processes by leading sprint demos, facilitating weekly stand-up meetings, participating in backlog prioritization and planning sessions, as well as retrospectives.
- Played a pivotal role in fostering knowledge-sharing within the team by conducting comprehensive knowledge transfers, providing mentorship, and actively assisting contract teammates to enhance their skills and confidence.

## // ACCOMPLISHMENTS

- **AWS S3 Glacier Restore Process** – Automated process for restoring database backups from S3 Glacier storage. Diminished the manual effort of this process from 5 people over 10 hours to 1 person in just a few minutes through Python scripting using API driven parallel restoration, monitoring and alerting of backups.
- **Automated FED Statement Conversion** - Workflow that downloads a financial report from the FED and converts it into a CSV file for multiple integrations. Eliminated an overnight manual process saving the bank several hours of overtime weekly.
- **AWS Transfer Family SFTP System** - AWS SFTP was an effort to overhaul a legacy file transfer solution into a completely event driven process. Through use of AWS CloudFormation, Transfer Family, API Gateway, DynamoDB, S3 and Lambda I were able to save the bank \$20,000 annually, as well as create a more highly available and disaster recovery protected architecture.
- **xMatters & ServiceNow Integration** - This process leverages the integration of our alerts monitoring technology xMatters by sending alerts to our alerting system ServiceNow to create a ticket and notify the necessary team to take action. Improving our frequency of true alerts by 95% as well as improving our retention of alerts for auditing purposes.
- **Control-M Automated Workflow Diagrams** - To enhance documentation and facilitate support, we implemented an automated process that generates visual diagrams for every workflow within the BMC orchestration tool Control-M. These dynamic diagrams, updated weekly, are seamlessly published on our internal Wiki page, providing teams with on-demand access for enhanced collaboration and reference.
- **Batch ReVamp Enterprise Project** - Revamped and analyzed the bank's comprehensive overnight batch process, orchestrating a strategic overhaul of financial operations. Anticipated a 40% boost in efficiency by streamlining workflows, eliminating superfluous steps, and advocating for enhanced API and event-driven integration directly into a cutting-edge DataLake environment.
- **Code Warriors** - Co-led weekly developer sessions, coalescing cross-functional teams to impart up-to-date coding practices and source control methodologies. Elevated the proficiency of developers across the IT department by championing Git-based source control for production code, advocating standardized scripting through the promotion of coding language best practices, and initiating coding training for new hires to foster proficiency within their respective teams.

## PPH LLC

Chicago, IL & Oakland, CA | 2020- 2021

*I cultivated expertise as a versatile full-stack developer and engineer through immersive engagements with diverse clients and technologies. My commitment spanned both front-end and back-end development, showcasing adaptability to emerging technologies tailored to the unique requirements of each project.*

## Fullstack Developer and Software Engineer

- Engineered and implemented user-friendly applications, leveraging a robust tech stack including Python, Java, REST APIs, PostgreSQL, MongoDB, HTML5, CSS3, Bootstrap 4, WordPress, and JavaScript.
- Ensured seamless functionality and an optimal user experience across diverse projects.
- Collaborated closely with clients to understand their unique requirements, vision, and brand identity for website development projects.

- Successfully managed end-to-end project lifecycles, from initial client meetings and requirements gathering to design, development, testing, and deployment.
- Expanded freelance portfolio by delivering high-quality websites, garnering positive client feedback and referrals for additional projects.
- Architected cross-browser compatibility, testing websites on multiple browsers to guarantee a consistent experience for users.
- Stayed abreast of industry trends and emerging technologies, incorporating innovative features and design elements to keep client websites current and competitive.

## // ACCOMPLISHMENTS

- **Earsense Chamber Music Exploratorium Website** (<https://www.earsense.org/about/>) - Contributed significantly to the transformation of a non-profit chamber music website by leveraging a powerful blend of Java, APIs, HTML, CSS, and JavaScript. Applied technical expertise to enhance the site's functionality, ensuring a seamless and engaging online experience for users while aligning with the organization's mission and goals.
- **Chicago Fine Arts Packing and Crating Website** (Decommissioned) - Established and upheld a compelling online presence for this Chicago-based art packing, crating, and installation company. Leveraging my expertise in WordPress, HTML, CSS, and JavaScript, I crafted a visually captivating and highly interactive website, featuring custom logos and fonts. This strategic initiative resulted in a remarkable 200% surge in customer engagement and revenue, attesting to the website's effectiveness in attracting and retaining a broader audience.
- **Berkshire Hathaway Real Estate Agent Website** (Decommissioned) - Revitalized and modernized the online brand presence for a real estate agent through a comprehensive full-stack development initiative. Employing a skill set encompassing front-end technologies such as WordPress, HTML, CSS, and JavaScript, alongside back-end proficiency in AWS, I engineered a user-centric website. The result was a sleek, responsive platform that not only showcased property listings but also integrated advanced features for a seamless user experience.
- **Personal Website** (<https://peterhardy22.github.io/>) - Embarked on my inaugural project by meticulously crafting a personal website entirely from the ground up, utilizing HTML, CSS, and JavaScript. This interactive showcase seamlessly integrates attachments and links, serving as a testament to my artistic design sensibilities and unwavering commitment to project completion. Functioning as an enduring portfolio, this website not only encapsulates my diverse array of projects but also stands as a living testament to my ongoing dedication to code, with the entire code base readily accessible for exploration.