

Emily Prychitko, Ph.D.

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I am a predominantly-backend software engineer with a Ph.D. in Philosophy and a love of clean code, clear communication, and thoughtful design. I have worked on an agile dev team for Mastercard Digital Enablement System Manager since April of 2021, progressing, across three promotions, from Apprentice to Senior Software Engineer.

WORK EXPERIENCE

Senior Software Engineer

Mastercard

Mar 2025 - Present

- Helped with urgent prod support tasks by troubleshooting and providing fixes for data issues that spanned multiple components/domains
- Created Splunk dashboards to help automate deployment validations
- Wrote clean and accessible UI code; refactored existing UI code and unit tests to improve maintainability

Software Engineer II

Mastercard

Mar 2023 - Mar 2025

- Served as Subject Matter Expert (SME) for a new Pivotal Cloud Foundry (PCF) app that interacts with ~13 components, owned by various teams, via REST API and publishing/subscribing
- As SME, led the effort in creating low-level design (LLD) for ~8 features; wrote detailed LLD documentation; supported developers with dev notes, code reviews, and meetings about technical/business requirements
- As SME, coordinated closely with architects, lead engineers, product owners, project managers, testers, and dev teams on design, integration, testing, and deployment; presented flows to various teams; kept stakeholders informed of changes; served as primary point of contact for the app
- As SME, served as dev support for deployments; analyzed and fixed urgent issues
- As SME, created and implemented a technical review process to maintain code quality and standards across stories/features; refactored code as needed

Software Engineer I

Mastercard

Dec 2021 - Mar 2023

- Served as SME for a key data migration component by delivering urgent hotfixes; helping design stories/features; being a main point of contact for product team's questions
- Served as SME for two features by identifying design gaps; developing critical stories; clarifying technical/business details to dev team
- Rewrote onboarding documentation for clarity and efficiency; mentored several new developers through onboarding
- Resolved blockers with CI/CD for team (Jenkins, Docker, Flyway, PCF)
- Actively contributed to scrum ceremonies and helped maintain backlog health
- Wrote, updated, and ran automated regression tests

Apprentice Software Engineer

Mastercard

Apr 2021 - Dec 2021

- Developed and tested stories/bugs, mostly for backend services (Java, Spring Boot, SQL) but also some frontend (Typescript, Angular)
- Documented and shared technical knowledge for team use
- Proactively acquired technical/business knowledge/skills to support development work

Teaching Leadership Fellow

LaunchCode

Sep 2021 - Mar 2022

- Co-led and evaluated a group of ~20 students in a full-stack development class (Java, Spring Boot, Javascript, Angular)
- Ran guided coding sessions and hands-on activities; assisted students in groups
- Provided detailed assignment feedback, hosted 10 office hours weekly

EDUCATION

Ph.D. in Philosophy-Neuroscience-Psychology

Washington University in St. Louis

Aug 2015 - May 2021

- Conducted independent research in the philosophy of mind/perception/cognitive science; presented research at numerous academic conferences in USA and Europe; published a research paper in an excellent academic journal (*Synthese*)
- Designed and taught 3 undergraduate philosophy courses; served as teaching assistant for 4
- Organized conferences, departmental events, speaker series, research group activities; served as reviewer for academic journals/conferences

Machine Learning

Coursera

Aug 2020 - Oct 2020

- Linear and logistic regression, neural network, anomaly detection, support vector machine, clustering, dimensionality reduction, model evaluation and retraining, Octave

LC101

LaunchCode

Jul 2017 - Dec 2017

- Programming fundamentals with Python and Java, web development with Flask and Spring Boot (also HTML and CSS)

B.A. in Psychology (double major in philosophy)

Northern Michigan University

Aug 2012 - May 2015

SKILLS

- Java, SQL, Python, Javascript, TypeScript, HTML, CSS
- Spring Boot, Pivotal Cloud Foundry, Maven, Angular, Tomcat
- Git, Bitbucket, Jenkins, Docker, Swagger, Redis
- IntelliJ, Visual Studio Code, Oracle SQL Developer, MySQL
- Splunk, Sonar, Checkmarx
- Unit testing, functional testing, automated regression testing
- Creating LLD, writing clear documentation, elaborating features, doing careful code reviews
- Preparing release builds, deploying code, validating deployments, troubleshooting environment issues
- Machine learning (linear regression, logistic regression, neural networks, model evaluation, NumPy, Tensorflow)