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WORK EXPERIENCE

Software Engineer II

Mastercard

Mar 2023 - Present

- Included same duties as Engineer I
- Served as Subject Matter Expert for building a new PCF component that communicated with ~10 components (via REST API and publishing/subscribing) owned by various teams, by helping create low-level design for ~8 features

Software Engineer I

Mastercard

Dec 2021 - Feb 2023

- Included same duties as Apprentice
- Started to break a large service layer into separate microservices and migrate them to PCF
- Served as Subject Matter Expert for 2 features regarding the move to PCF, by helping identify and fill in design gaps, providing story point estimates, developing the more fundamental stories, clarifying business/technical details to team
- Served as Subject Matter Expert for a data migration component, by developing many urgent hotfixes for it, creating and developing stories to improve it, helping design a feature for it, discussing its problems and potential improvements with the Product team (often as the only developer)
- Restructured the onboarding process for new MDES Manager engineers by compiling unclear and inconsistent information across several sources, streamlining the steps to maximize efficiency, writing very clear and comprehensive documentation for the process, publishing it to a central location, sharing it with all new engineers on our teams
- Led several new junior and senior engineers through the onboarding process, met with them daily to help them become accustomed to the team and tech until they were ready to develop stories on their own
- Quickly identified and fixed issues blocking the team, like problems with Jenkins pipelines, Flyway builds, component builds, Docker deployment and logging, PCF deployment
- Actively participated in scrum ceremonies by giving concise updates, sharing resources, jumping on tasks, keeping my tasks up to date, adding stories/defects to the backlog
- Wrote and ran automated regression tests

SKILLS

- Java, SQL
 - Also Python, Javascript, TypeScript, HTML, CSS
- Spring Boot, Pivotal Cloud Foundry, Maven
 - Also Angular, Tomcat
- Git, Bitbucket, Jenkins, Docker, Swagger
- IntelliJ, Visual Studio Code, Oracle SQL Developer
 - Also MySQL
- Splunk, Sonar, Checkmarx
- Unit testing, functional testing, regression testing
- Machine learning (linear regression, logistic regression, neural networks, model evaluation, NumPy, Tensorflow)

Apprentice Software Engineer

Mastercard

Apr 2021 - Dec 2021

- Member of an agile backend development team for Mastercard Digital Enablement System Manager, a set of web and standalone applications that enable banks to provide contactless payment (e.g., Apple Pay) for their customers
- Developed stories and bugfixes in Java and SQL for Spring Boot components, and occasionally TypeScript and HTML in an Angular component
- Identified gaps in my technical/business knowledge and skills and filled them in by studying and practicing on my own
- Wrote clear notes on many of our components, features, and work processes, shared them with newer team members

Teaching Leadership Fellow

LaunchCode

Sep 2021 - Mar 2022

- Was responsible, with another TLF, for helping and evaluating a group of ~20 students during LC101, a programming fundamentals and web development class (using Java, Spring Boot, Javascript, Angular, HTML, and CSS)
- Ran a 1.5-hour session for our group of students during each class period, in which we clarified material from the lecture and readings, created and walked through new examples, led our students through a predefined programming activity, talked with our students in smaller groups to help explain any concepts they were struggling with or help them work through parts of the activity they were stuck on
- Graded several assignments for our students, provided detailed written feedback as to what they programmed well and how they could improve their programs
- Hosted 10 office hours each week for any students from the class to attend, helped them with assignments and concepts

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
- Designed and taught 3 undergraduate philosophy courses, served as a 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