

Chase B. McDermott

SENIOR SOFTWARE ENGINEER

Houston, TX

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Experience

Circle Internet Financial (Crypto)

June 2021 - Present

SOFTWARE ENGINEER I → SOFTWARE ENGINEER II → SENIOR SOFTWARE ENGINEER

Houston, TX (remote)

- Designed and led implementation of a native USDC bridge (CCTP, [see link](#)), including development of a permissionless, scalable API and an asynchronous, high-consistency worker powered attestation service integrated with 8+ blockchains, leading to over \$1 billion bridged in the first year to date
- Managed team of 4 engineers in a tech-lead role for bridge service design, iteration, and implementation
- Key contributor in integrating USDC on new blockchain networks (Avalanche, Polygon, and Arbitrum), implementing internal API and asynchronous worker-based Java services for processing blocks, tracking deposits/withdrawals, broadcasting transactions, etc.
- Worked primarily in Java and Typescript with Postgres DBs, Dockerized services deployed to Kubernetes clusters, interacting with many AWS services (SQS, SNS, RDS, etc.), and Redis
- Coordinated with external development team to design, review the code implementation, and deploy bridge smart contracts written in Rust for the Solana blockchain
- Co-Inventor of two pending patents – "Burn and Mint Bridging" and "Bridge Rebroadcasting"

RetailMeNot Inc. (E-Commerce)

Jan. 2020 - June 2021

SOFTWARE ENGINEER I → SOFTWARE ENGINEER II

Austin, TX

- Implemented new features and components centered around products/e-commerce on RetailMeNot.com in the core Next.js React app used by millions of users, with a focus on SEO
- Scaled commerce product experiences at RMN from ~10k products, 2 merchants, and ~25 pages to ~10 million products, 25 merchants, and over 500 pages in < 6 months, working full-stack on the project with a Python and GraphQL API, React public facing web app, as well as an internal React (Typescript) web app
- Improved and scaled data pipeline importing over 10 million products daily from multiple sources utilizing Node.js, Typescript, Airflow, and a Postgres db bringing job time down from ~5 hours to 30 minutes

Audible, an Amazon Company (Consumer)

June 2019 - Aug. 2019

SOFTWARE ENGINEER INTERN

Newark, NJ

- Worked on the Digital Asset Management team to develop a new view to easily allow operators to quality control check metadata and assets, used by hundreds of Audible Operators around the world daily
- Developed new API endpoints in a Spring (Java) back-end application for uploading images to S3, increasing operator's efficiency by up to 300 products per day
- Implemented user interface design using React and Redux, creating over 15 new React components throughout the Summer

J.P. Morgan Chase & Co. (Finance)

June 2018 - Aug. 2018

SOFTWARE ENGINEER INTERN

Houston, TX

- Developed a modular, extensible, internal web application in Python for use by the Regulatory and Control team with data visualization
- Upgraded existing application within firm's proprietary risk management and trading platform by adding features, enhancing user experience, and optimizing data throughput, written in Python, utilizing a NoSQL database

Skills

Languages

Typescript/Javascript · Python · Java · Rust · C++

Tools and Frameworks

SQL · React/Redux · HTML/CSS · Kafka · Terraform · Kubernetes · Redis

AWS Tools (SQS, SNS, Lambda, S3, etc.) · Monitoring/Metrics (Prometheus, Grafana, Datadog, etc.)

Education

Texas A&M University

Graduation: Dec. 2019

B.S. IN COMPUTER SCIENCE (CSCE)

College Station, TX

- GPA: 3.4/4.0
- Minor in [Business](#) and [Mathematics](#)

Projects

Solidity Contributions (Open-Source)

C++ · Solidity

[HTTPS://GITHUB.COM/ETHEREUM/SOLIDITY](https://github.com/ethereum/solidity)

TopShot Match - Feb. 2023 Flow Hackathon Winner

SwiftUI (iOS mobile app) · Cadence

[HTTPS://GITHUB.COM/CHASE1745/TOPSHOTMATCH](https://github.com/chase1745/topshotmatch), [TWITTER LINK](#)