Michael Reeder

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EDUCATION: BS Computer Science - Wright State University 2014

PROFICIENCIES:

Languages: Typescript, Postgres/SQL, Solidity
Web: Node.js, NPM, Web3, React, REST APIs, JSON, AWS Lambda, SQS, Vercel, JWT, Railway, IPFS, EVM
Databases: Postgres/SQL, Redis, Amazon SQS, MongoDB, Convex
Tools: Git, Cursor, Codex, Prisma, Tailwind, Github Actions, Sentry, Datadog
Frameworks: Next.js/server-components, React, Express, React Native, Hardhat, Mocha/Jest, Turborepo (monorepo)

EMPLOYMENT AND EXPERIENCE:

IVY: Staff Engineer / Blockchain Architect (June 2019 - Dec 2025)

- **Led full technical ownership** as sole engineer: distributed system architecture, CI/CD setup, infrastructure deployment, monitoring, and stakeholder feature scoping
- **Designed and implemented burst resistant architecture** using SQS + AWS Lambda to process 10k+ real time scans during live stadium events. Used Redis SET NX for idempotency and safe retry for at-least-once delivery. Load tested up to 50k transactions processed in 10 minutes. Used rotating paymaster strategy to batch transactions and optimize cost .
- **Distributed versioned SDK** to external development team through private npm package abstracting authentication logic (WebAuthn and secp256r1), indexing data, and blockchain interactions. Provided an optimistic data layer interface to improve responsiveness.
- **Deployed cross-chain custom smart wallet proxies** to facilitate frictionless peer-to-peer trading and mint branded Proof Of Attendance (POA) NFTs. Supported optimized 3rd party gas sponsorship using batching and proxy patterns. Deployed indexing database to record on-chain events and provide real-time balance updates to the SDK.
- **Designed and deployed React applications** with dynamic per-customer branding configurations, supporting account management, peer-to-peer transactions, real-time balance updates, and NFT visualization. Implemented secure onboarding flows, MetaMask integration, client-side encryption features, apple/google wallet integration, and wallet state management. Served as the flagship UI platform for four years prior to transitioning frontend branding ownership to an external team.
- **Passed multiple independent security audits** conducted by Trail of Bits, along with comprehensive legal review led by Pryor Cashman's Jeffrey Alberts.
- **MVP received $3m investment** followed by multiple subsequent investment rounds

SHARESPOST (SanFrancisco CA): [Contract] - Blockchain Engineer (Nov 2018 - April 2019)

- **Built and deployed secure smart contract infrastructure** for a FinTech token trading MVP, enabling tokenized asset exchange workflows.
- **Collaborated on a three-engineer team** to design a trading platform using token economic incentives for participating in the network by finding buys and sells. Created automated
- Established CI and automated testing pipelines, integrating static analysis tooling (Slither) under guidance from external security auditors.
- **Built supporting React application** for trade creation and transaction state visualization.
- **Developed NestJS backend API** to coordinate buys and sells being matched.
- **Security focused** lead by Smart Contract Weakness Classification (SWC) guide. Strong CI and testing including static analysis tools like Slither
- **Hired post contract** by project leader

SUPER SYSTEMS INC (Cincinnati OH): [Contract] - Mobile Integration Engineer (May 2018 - Nov 2018)

- **Built React Native mobile app** to replace a legacy desktop furnace-control application. The app connected to a native .NET server which exposed endpoints to check on furnace status which provided the ability to check process stages and kick off new jobs. This allowed operators to operate furnaces by remaining on the floor. Deployed and released on the Apple Store.

TERRAPIN TICKETING (Cincinnati OH): Lead Engineer/Cofounder (Sep 2017 - May 2018)

- **Built a secondary market ticket exchange platform** backed by solidity smart contracts and a local ticket distribution platform. Users were able to register their tickets on the platform from a QR code and link printed on the traditional ticket.
- **Implemented elliptic curve recovery** to build embedded transfer signatures into QR codes to facilitate peer-to-peer exchange.
- **Won Hack Cinci 2018** blockchain competition.

Wyzerr (COVINGTON KY): Lead Software Developer (July 2016 - Aug 2018)

- **Led SaaS application team** in migrating a legacy survey building tool to a SaaS driven platform where customers were able to set up a subscription to create custom surveys using an interactive timeline.
- **Deployed infrastructure** to AWS EC2, CI/CD with Jenkins using a React, Express, Mongo and Redis stack
- **Responsible for hiring and interviewing** technical candidates.

ZIPSCENE (CINCINNATI OH): Software Developer (May 2015 - Jul 2016)

- **Built large scale data transformation pipelines** using Node streams to process data over FTP, REST, .shp, and CSVs. Transformation requests were provided by rabbitMQ and were analyzed by

machine learning algorithms to create brand "profiles" and predict future customer behavior.
- **Used ElasticSearch** queries to process incoming data and save it.

INTERACTIVE INTELLIGENCE (Raleigh NC): Software Developer (May 2014 - May 2015)

- **Built consumer facing embedded browser plugin** using the Raptor.js frontend framework. The plugin allowed companies to integrate with voice over IP backend services.
- **Automated AWS deployment** using Puppet, Vagrant, Asgard and Packer

CONN-XUS (Cincinnati OH): Jr. Software Developer (Jun 2013 - Dec 2013)

- **Independently developed an automated web crawler** leveraging strategy pattern, AWS API and parts of an admin control panel API.
- **Implemented real-time chat system** that was embedded into the Conn-Xus website using Node.js and Socket.io.

KNOESIS RESEARCH CENTER at Wright State University: Jr. Software Developer (Jan 2012 - Jan 2013)

- **Member of a research team** responsible for designing and developing a Twitter sentiment analysis web application. Tweets were aggregated and ran through sentiment analysis algorithms to get polarity scores.
- **Designed and deployed** native Android healthcare application in collaboration with the OSU medical department. The application collects data through a combination of external sensors and dialogue inputs.