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| Profile Picture**Michael Barlock**Staff Software Engineer// ContactWebsite

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| [https://barlock.io](https://barlock.io/) |

GitHub

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| [barlock](https://github.com/barlock) |

LinkedIn

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| [/in/barlock](https://www.linkedin.com/in/barlock/) |

// EducationUniversity of North Carolina,Chapel Hill

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| B.S. in Computer ScienceMinor in Entrepreneurship/Music |

// ReferencesAvailable on Request |  | // About Me

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| --- |
| I'm a design-curious, full-stack software engineer with a heavy focus on maximizing impact through intuitive, seamless experience design. I build high-quality, performant, secure, and maintainable cloud-native applications that delight users across industries.I love mentoring and teaching others to learn from and elevate those around me, barbecue, home automation, and ringing chords with my barbershop quartet. |

// Experience

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| --- | --- | --- |
|  | Senior Software EngineerDropbox | Replay | Dec 2023 – Oct 2024 |
|  | * Lead design and delivery of features and optimizations for Replay with scope spanning multiple teams and engineering-partners
* Optimized build and deployment times saving $300k/year in developer productivity and reduced time-to-deploy to under 5 min (from over 30).
* Worked cross-functionally with design and product to solve problems without over-engineering
* Introduced an improved testing culture with Playwright, freeing developers from manual QA, and improved unit test coverage by 20%
* Improved page load times by 3s by implementing caching, backend optimization and tracing, and improved loading waterfalls

**Stack**: Typescript, Python, React, Playwright, AWS, gRPC, Bazel |
|  |  |
| Profile Picture | Staff Software EngineerSHOWRUNNER | May 2022 – Sep 2023 |
|  | * Developed from scratch, an [award-winning](https://reelchicago.com/article/showrunner-wins-product-of-the-year-at-nab/) filmmaking platform that connects physical sets with Unreal Game Engine with WebRTC real-time video streaming
* Architected end-to-end pipeline for building and deploying web and native apps with local and remote control
* Led Agile engineering org and facilitated continuous releases with collaboration from product and design

**Stack**: Typescript, React, GitHub Actions, WebRTC, GraphQL, Ionic, Unreal Engine |
|  |  |
| IBM Partner | Cognizant | Architect / Senior Software EngineerIBM | Watson AIOps • Slack@IBM Partnership | Jul 2019 - May 2022  |
|  | * Architected MLOps platform, enabling low-code AI app development
* Open source improvements to Slack's own [developer tools](https://github.com/slackapi/bolt-js/pulls?q=is%3Apr+sort%3Aupdated-desc+is%3Aclosed+author%3Abarlock) and [bot tooling](https://github.com/IBM/slack-wrench) to simplify infusing AI into Slack bots
* Evangelized “inner source” and built Python K8s operator framework
* Designed and implemented a SOC 2 compliant AWS deployment
* Led engineering, DevOps, and certification efforts for 30+ person product team

**Stack**: Typescript, Python, AWS, gRPC, OpenShift, Jenkins, Terraform |
|  |  |  |
| Profile Picture | Senior Software EngineerConsensys | Aug 2018 - Jul 2019 |
|  | * Built tamper-resistant, distributed, static websites ([consensys/web3studio-soy](https://github.com/ConsenSys/web3studio-soy))
* Created the [first music NFT](https://github.com/ConsenSys/web3studio-bootleg) that pays back royalties to artists. Custom dApp, ERC712 contract extension deployed to Ethereum main-net.

**Stack**: Solidity, Ethereum, React, IPFS, Smart Contracts, Web3 |
|  |  |
| LifeOmic Precision Recovery Software Reviews, Demo & Pricing - 2024 | Senior Software EngineerLifeOmic | JupiterOne | Feb 2018 - Jul 2018 |
|  | * Built HIPAA-compliant continuous CI/CD pipeline to AWS using Terraform and Docker
* Worked cross-company and discipline to create a shared design system
* Led Agile frontend team for JupiterOne

**Stack**: Typescript, React, Terraform, AWS, GraphQL, Docker, Jenkins |
|  |  |
| IBM Partner | Cognizant | Senior Software EngineerIBM | Slack@IBM, Storefront, Service Engage | Jul 2013 - Feb 2018 |
|  | * Led transformation effort and rolled out Slack, GitHub, and TravisCI to 400k IBMers
* Taught modern practices through conference-like talks and hackathons worldwide
* Used resilience engineering to ensure uptime and led internal and held cross-company learning reviews (post-mortems) with vendors
* Developed Slack bots to automate internal processes

**Stack**: Node.js, React, TravisCI, IBM Cloud, NewRelic, Java |

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