Michael Barlock
Staff Software Engineer

//Contact

Website
https://barlock.io

GitHub
barlock

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/in/barlock

//Education

University of North Carolina, Chapel Hill

B.S. in Computer Science
Minor in Entrepreneurship/Music

//References

Available on Request

//About Me

I'm a design-curious, full-stack software engineer with a heavy focus on maximizing impact through effective experience design. I build high-quality, performant, secure, and maintainable cloud-native applications that delight users across industries.

I love mentoring and teaching others, barbecue, home automation, and ringing chords with my barbershop quartet.

//Experience

Staff Software Engineer
SHOWRUNNER — **May 2022 - Sep 2023**

- Developed from scratch, an award-winning filmmaking platform that connects physical sets with Unreal 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

Architect / Senior Software Engineer
IBM | ConveyorAI • Watson AIOps • Slack/IBM Partnership — **Jul 2019 - May 2022**

- Architected enterprise-scale MLOps platform, enabling no/low-code AI app development
- Open source improvements to Slack's own developer tools and bot tooling to simplify infusing AI into Slack bots
- Evangelized "inner source" and built a company-wide Python K8s operator framework
- Designed and implemented a SOC 2 compliant AWS deployment
- Led delivery, engineering, DevOps, and certification efforts for 30+ person product team

⟨⟩ Stack: Typescript • Python • AWS • gRPC • OpenShift • Jenkins • Terraform

Senior Software Engineer
Consensys — **Aug 2018 - Jul 2019**

- Built tamper-resistant, distributed, static websites (ConsenSys/web3studio-soy)
- Created the first music NFT that pays back royalties to artists. Custom dApp, ERC712 contract extension deployed to Ethereum main-net.

⟨⟩ Stack: Solidity • Ethereum • React • IPFS • Smart Contracts • Web3

Senior Software Engineer
LifeOmic | 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

Senior Software Engineer
IBM | Whitewater • 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