



Michael Barlock

Staff Software Engineer

//Contact

 Website
<https://barlock.io>



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

 LinkedIn
[/in/barlock](https://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
- Evangalized "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

Consensus

Aug 2018 - Jul 2019

- Built tamper-resistant, distributed, static websites ([Consensus/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