

Ethan A. Brouwer

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<https://ebrouwer.dev>

Software Engineer with over five years of experience building scalable solutions in the blockchain and financial services industries. Proven track record of leading full-stack development, from crafting responsive React frontends to architecting robust backend services using Python, JavaScript/TypeScript, and Clojure. Expertise in cloud infrastructure (AWS), CI/CD pipelines, and API development. Strong foundation in applied and computational mathematics with a passion for solving complex technical challenges.

PROFESSIONAL EXPERIENCE

TaxBit Software Engineer

Draper, Utah (April 2019 - present)

- Solely built TaxBit's frontend in React with no prior experience with the framework in less than 6 months
- Built many of TaxBit's backend services in Python, Javascript/Typescript, and Clojure
- Built TaxBit's public facing API that handles millions of daily requests using AWS lambdas, API Gateway, and AWS SAM for deployments
- Built an end-to-end ETL pipeline for ingesting, parsing, and transforming millions of cryptocurrency transactions a day from numerous sources using a dockerized service running in AWS Batch and ECS
- Implemented the first service at TaxBit with a full CI/CD pipeline with 0 touch points from merge to deploy in GitHub actions, including automated rollbacks after E2E test failures
- Developed a PySpark abstraction framework that simplified step composition and improved performance, reliability, and observability of accounting data pipelines

LearningBridge Inc. Software Engineer

American Fork, Utah (March 2018 - April 2019)

- Rebuilt a large portion of the frontend application to be mobile friendly and responsive
- Reimplemented much of the automatic PDF generation in the software

Perfect Pitch Tech Software Engineer

Lehi, Utah (March 2015 - December 2015)

- Designed and implemented the company's first ever puppet infrastructure and maintained these configurations for 60+ servers
- Worked on a python code repository including Django framework, Django REST framework, Twisted (event-driven networking engine), and countless other integrated frameworks and packages
- Monitored and responded to potential breakdowns in 24/7/365 web services hosted in an on-prem data center

EDUCATION

Bachelor's in Applied and Computational Mathematics, *Brigham Young University*, 2022

SKILLS

- Proficiency working with TypeScript, JavaScript, Python, Clojure, Golang, AWS, ReactJS, Docker, Kubernetes, Terraform, SAM/CloudFormation, CDK, GitHub Actions, Spark (PySpark)
- Familiarity working with Rust, C, C++, C#, Java, Kotlin, Solidity, GCP
- Well-rounded understanding of managing both cloud and on-prem infrastructure

OTHER PROJECTS

- Built the original Airbyte terraform provider, eventually taken over by the Airbyte team (<https://github.com/eabrouwer3/terraform-provider-airbyte>)