

EXPERIENCE

• Bridgewater Associates

Security Engineer

Westport, CT

June 2018 - Present

- **Iris:** is an internal graph analysis tool I designed for incident response and insider-threat workflows.
 - * Engineered a graph analysis application utilizing a hybrid GraphQL API with and Flask and Amazon RDS
 - * Built an AWS based secure CI/CD pipeline with static code analysis using SonarCloud
 - * Engineered a performant React frontend to visualize complex graph data
 - * Designed highly fault tolerant AWS infrastructure with RDS and Fargate
- **Policy DB:** is a proxy policy configuration engine designed to track the lifecycle of a policy exception and enforce configuration across multiple proxy providers.
 - * Implemented a temporal database architecture with Amazon Aurora to improve the quality of year-end policy audits

• Consulting

Application Engineering

Tampa, FL

October 2017 - June 2018

- **Mad Mobile Concierge:** is a leading MPOS solution used globally by Brooks Brothers, Vans, and The North Face.
 - * Developed and integrated a GDPR compliant analytics system in React
 - * Modernized a large-scale React application introducing the Redux paradigm
 - * Integrated Sentry.io to increase defect awareness and reduce remediation time
 - * Designed a defect remediation process and provided training
 - * Lead adoption of Test Driven Development (TDD) to slash regression rates across entire portfolio
- **ID Plans Remote Property Manager:** is a real estate management system used by property managers nationwide.
 - * Developed a highly scalable, SVG rendering system in Ember
 - * Doubled performance on a large Ember frontend app
 - * Migrated monolithic on-premise infrastructure to AWS based micro-services

• SentinelSix

Full Stack Engineer

Columbia, SC

June 2017 - October 2017

- **Guardian Angel:** is a global personnel security solution adopted by multiple Fortune 100 companies
 - * Implemented AWS based CI/CD pipeline with Docker Cloud and Codebuild
 - * Built a real-time geospatial tracking dashboard with React and MongoDB
 - * Built a multi-tenant user management system with React and Postgres
 - * Built performant geospatial data ingestion endpoints, using Go and Postgres
 - * Recruited and trained 3 interns through partnership with local high schools

• TCube Solutions

Software Application Developer

Columbia, SC

April 2016 - June 2017

- **Blockchain R&D:** Researching new technologies and designing prototypes for use in insurance
 - * Explored blockchain potential for the insurance sector
 - * Prototyped and demoed a distributed insurance market
- **JIRA Project Kickoff:** is a tool for creating projects and assigning tasks based on requirement templates. I built a plugin to automate project kickoff by creating and assigning JIRA tasks through the JIRA API

PROJECTS

- **Futurecast:** is a long-term financial data generation and exploration toolkit I built to codify my financial decision making logic. Futurecast was designed and built to improve decision making efficiency and accuracy
- **SkyFlix:** is an offline in-flight entertainment system designed for plug and play use on private jets. SkyFlix is in use by many customers most notably Air Force 1

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, TypeScript, Swift, Go, SQL
- **Cloud Providers:** AWS, Azure, Heroku
- **Technologies:** GraphQL, Rest, MongoDB, Amazon Aurora, Postgres, Terraform, Neo4j
- **Frameworks:** React Native, Express, Flask, Expo, Webpack, Electron, UIKit, ARKit,
- **Paradigms:** Cloud Native, TDD, Functional, OOP