Jacob Sansbury

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EXPERIENCE

- **Bridgewater Associates** — Westport, CT
  Security Engineer — *June 2018 - Present*
  - **Iris**: is an internal graph analysis tool I designed for incident response and insider-threat workflows.
    * Designed and developed a performant application utilizing a hybrid GraphQL API with and Flask and Amazon RDS
    * Designed and developed a performant React front end to visualize graph data
    * Designed highly fault tolerant AWS infrastructure with RDS and Fargate
    * Built a secure CI/CD pipeline with static code analysis using SonarCloud
  - **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 to improve the quality of year-end policy audits

- **Consulting** — Tampa, FL
  Application Engineering — *October 2017 - June 2018*
  - **Mad Mobile Concierge**: is a leading MPOS solution used globally by Brooks Brothers, Vans, and The North Face.
    * Developed GDPR compliant analytics system
    * Modernized a large-scale React application introducing the Redux paradigm
    * Integrated Sentry.io and designed a crash remediation process to fit their Agile cadence
    * 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.
    * Achieved performance improvements of 2X for all clients
    * Migrated on-premise infrastructure to AWS
    * Wrote documentation and trained new engineers on new AWS infrastructure

- **SentinelSix** — Columbia, SC
  Full Stack Engineer — *June 2017 - October 2017*
  - **Guardian Angel**: is a global personnel security solution adopted by multiple Fortune 100 companies
    * Implemented CI/CD pipeline with Docker Cloud and Jenkins
    * Built real-time tracking dashboard and multi-tenant user management system with React
    * Built performant geospatial data ingestion endpoints, using Go
    * Recruited and hired 3 emerging developers through outreach to local high schools

- **TCube Solutions** — Columbia, SC
  Software Application Developer — *April 2016 - June 2017*
  - **R&D**: I developed and implemented business solutions and applications, while playing integral role in researching and recommending new technologies for the insurance sector. Part of this process was developing cost / benefit analyses and demonstrations.
    * Explored potential blockchain uses cases in the insurance sector.
    * Expedited project kickoff with automated task assignment through JIRA.

PROJECTS

- **Futurecast — Personal Finance Toolkit**: Personal finance data generation and exploration toolkit codifying my financial decision making logic for more reliable decision making.