Charles Ging

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https://charlesging.github.io/

EXPERIENCE

Alterra Mountain Company - *SOFTWARE ENGINEER*   *04/2020 - PRESENT*

- Developed ecommerce platform for Ikon ski pass using Rails & React
- Implemented core features of company's Covid-19 response
    - Deferral of an unused ski pass
    - Application of partial or full credit towards future purchases
- Synced data to / from resort applications using background jobs
- Developed API services for internal and external consumers
- Maintained 3rd party integrations
    - Elavon - payment processing
    - SheerID - identity verification for discounts
- Rebuilt guest FE using React/Redux with styled components

RedPoint Notebooks - *CO-CREATOR, SOFTWARE ENGINEER*   *10/2019 - PRESENT*

- Co-created a web-based, multi-language computational notebook built with Node, WebSockets, ReactJS, and Docker
- Allows editing and execution of Ruby, JavaScript, and Python within the same browser window
- Custom-built a dispatch server:
    - Proxies WebSocket messages between client & container
    - Initializes and tears down Docker containers using Docker remote API
    - Manages user session data in Redis
    - Acts as MongoDB middleware
- Buffered incoming webhook data using a Redis queue
- Secured containers & their file systems using tightened default user permissions
- Secured host system from malicious users using Google's gVisor secure container runtime
- Implemented Linux control groups to prevent resource monopolization
- Persisted webhook and notebook data with MongoDB
- Authored comprehensive case study for project : https://redpoint-notebooks.github.io/

Self-Employed - *FULL STACK DEVELOPER*   *01/2018 - 10/2019*

- Created personal and open source web applications using Ruby/Rails, Javascript, React/Redux, NodeJS, SQL, HTML/CSS

SKILLS

Ruby • JavaScript • Node.js • Rails • Docker • SQL • PostgreSQL • Redis • MongoDB • React • Redux • jQuery • • Git • Google Cloud Platform • REST • OOP • Heroku • Linux

EDUCATION

Launch School - Software Engineering & Full-stack Web Development   *2018-2019*

Lawrence University - BA French, BA Music Performance   *2005-2009*