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# Simon Chan

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## Technical Skills

JavaScript | React.js | Node.js | MongoDB | MySQL | PostgreSQL | Redux.js | Express | Webpack |  
Docker | Amazon Web Services | Nginx | K6 | Loader.io | CircleCI | Jest.js | Mocha.js | Chai.js | Enzyme.js

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## Projects

### Lodge.io, *Software Engineer*

*Booking App for lodging and private homes*

- Achieved 90%+ unit test coverage using Jest and Enzyme to ensure stability throughout development.
- Dockerized service for a service oriented architecture module and ease of deployment through AWS.
- Decreased bundle size by 70% with Brotli and GZIP to increase page load speed by 50%, where first meaningful paint is 0.8s.
- Incorporated CircleCI for smooth work flow by automating testing for improved maintainability and ensure a high level of performance.

### Abode.ly, *Software Engineer*

*Home rental application*

- Optimized complex queries for PostgreSQL from 3500ms down to 8ms, using multi-column indexing, to improve user experience by reducing server response times.
- Scaled using NGINX as a load balancer to handle web-scale traffic for a steady 250 rps at 500ms with under 1% error rate under stimulated peak traffic.
- Implemented Redis to further improve response time and throughput for popular listings.
- Ensured application resilience through stress testing using K6, Loader.io and New Relic.

### BoardNite, *Software Engineer*

*Score tracker for multiple board games*

- Utilized Board Game Atlas API to provide game details, rule books and official sites.
- Built a MERN-stack single page application for instantaneous responsiveness and interactions.
- Implemented features to allow users to keep track of wins, # of times as certain roles and total games played for different games and their players.

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## Experience

### Burma Superstar

*Shift Lead*

May 2013 -  
August 2018

- Managed front of the house team along with any service related issues from front/back of the house and customers.
- Trained incoming employees in any of the positions in addition to adjusting overall training programs and work environment.

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## Education

**Hack Reactor**, *Advanced Software Engineering Immersive Program*  
**San Francisco State**, *Completed credits towards BA in Marketing*

2019  
2012-2016

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