**STANLEY LIM**

# EDUCATION

## Stony Brook University, Stony Brook

Computer Science • GPA 3.92/4.0 • 2016-2019 (Dec.)

# PROJECTS

## Cirrus | SCSS / JS

* A modern, flexible SCSS framework bundled with pre-styled components such as tabs, cards, modals, and modularized theming.
* Designed with relatively small footprint, using only **17.6 kb** when minified and gzipped.
* Maintained on Github with 700+ stars.

## Smores Underflow | TypeScript

* A scalable Stack Overflow clone built with **React**, **Koa**, **MongoDb**, **Kibana**, **Elastic Search**, **Redis**, **Nginx**, **PM2**, and **RabbitMQ**.
* Hosted sharded MongoDB, clustered Redis, and microservices through **Openstack**.
* Service handled 200,000 requests and 1,000 users over a 10-minute span (~333 TPS) simulating real use. Service limited to 20 vCPUs and 20GB of RAM.

## Coronavirus-us-api | Python

* A microservice built using **FastAPI**, **Redis**, and **Swagger** deployed on **Heroku** with CI/CD using **Travis CI**.
* Serves up to date information on Coronavirus cases in the US on the country, state, and county levels.

## Polarity | VB.NET / JS / HTML

* Fast web browser built to optimize memory consumption through active garbage collection, yielding up to 50% lower RAM usage compared to Google Chrome.
* Received **1,000,000+ downloads** since its release in 2013, averaging **4 stars** on popular download sites like CNET and Softpedia.

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# EXPERIENCE

## Amazon Web Services – Software Development Engineer

Backend | Feb. 2020 – Present

## Design, implement, test, and maintain core financial services that process all transactional data for ISVs and resellers in AWS Marketplace.

## Rearchitecting legacy systems to leverage serverless technology using AWS CDK, ECS, Fargate, RDS, Lambda, and Step Functions.

## Helped launch support for 13 different currencies to improve buyer experience on the platform.

## Amazon – Software Development Engineer Intern

Backend/Distributed Systems | Jun. 2019 – Aug. 2019

* Implemented new features in custom severless orchestrator dedicated to powering AWS Marketplace workflows.
* Utilized test-driven development to implement APIs for platform team to add additional functionality for AWS Marketplace platform. Utilized Mockito and JUnit for testing.
* Designed and implemented serverless architecture using **AWS CloudFormation**, **Lambda**, **SNS**, **SQS** and **DynamoDB** to parallelize data processing for incoming requests to service. Resulted in increased throughput by 20x (to 700 TPS) and reduced server latencies by 34% on average.

## LBi Software – Software Engineering Intern

Fullstack | May 2018 – Aug. 2018

* Full-stack development on LBi’s human resources suite using **Angular**, **TypeScript**, **Spring**, and **SQL**.
* Reduced server startup time by 50% by building a wrapper for the BIRT (Business Intelligence) runtime to run parallel with the application, rather than as a separate deployment.
* Implemented RESTful API secured with JWT authentication.

## Teaching Assistant for System Fundamentals

Teaching Assistant | Sept. 2017 – Dec. 2018

* Taught classes of 15-25 students concepts of computer organization, MIPS architecture, and control path design.