

# Calvin Ly

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## EDUCATION

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### San Jose State University

San Jose, CA

*Bachelor of Science in Computer Engineering*

*Aug. 2017 – May 2021*

- GPA: 3.79/4.0, Dean's Scholar List
- Coursework: Object-Oriented Concepts (C++), Assembly Language Programming, Algorithms and Data Structures, Advanced Algorithms and Data Structures, Software Engineering I, Database Systems I, Operating Systems

## EXPERIENCE

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### Software Development Engineer Intern

May 2020 – Aug. 2020

*Amazon*

*Remote*

- Designed and built an end-to-end model training pipeline to automate the training process and optimize workflow.
- Worked closely with data scientists to meet project goals and wrote documentation for long-term scalability.
- Integrated an open-source machine learning training script on AWS SageMaker to train and fine-tune models.
- Implemented the pipeline with Java, Python, and various services from AWS (CloudFormation, Lambda, S3, SNS, SQS, SES, SageMaker).

### Software Engineer Intern

Nov. 2018 – Aug. 2019

*IpserLab*

*San Jose, CA*

- Collaborated in a small team and innovated new ideas weekly using an Agile methodology.
- Utilized AJAX and a RESTful API to send and retrieve backend data for CRUD functionalities.
- Developed the front-end using HTML, CSS, Bootstrap, jQuery, and JavaScript.

## PROJECTS

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### Blips

Mar. 2020 – Apr. 2020

*React, Node.js, Express.js, MySQL, Reactstrap, JWT, BCrypt*

- Worked in a team of six to build a full stack Casino web application for users to play on.
- Set up the backend infrastructure in Node.js and wrote MySQL queries.
- Created a REST API with Express.js for the frontend to easily request and retrieve queries from MySQL.
- Implemented logging functionalities for error debugging.

### LeetTracker

Dec. 2019 – Jan. 2020

*React, AWS (Amplify, DynamoDB, Cognito), JQuery, GraphQL*

- Serverless web application that allows users to create and share sets of LeetCode problems.
- Leveraged AWS Amplify for authentication and data storage in Cognito and DynamoDB respectively.
- Applied GraphQL to perform CRUD operations with DynamoDB.

### Connect 365: Scheduling Application

Sep. 2019 – Dec. 2019

*Python, Flask, SQLAlchemy, HTML, CSS, Bootstrap*

- Led a team of four to design and develop a flask application that solves scheduling issues among friends.
- SQLAlchemy to store data, connect multiple users together, and compute schedule conflicts.
- Utilized Travis CI for deployment and wrote automated unit testing to optimize code and find bugs.

### realAnime: Anime Website

May 2019 – July 2019

*React, JQuery, Firebase, Bootstrap*

- Full-stack web application to search for over thousands of animes that are pulled from an anime database (Jikan API).
- Efficiently stored user information into Firebase database to minimize querying time and increase scalability.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, C++, HTML/CSS

**Libraries/Frameworks:** React, Node.js, Express.js, Flask, Bootstrap, JQuery

**Databases:** MySQL, Firebase, SQLAlchemy