

# Joshua Lorincz

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I am a self-driven software engineer with experience in mobile, full-stack, and desktop application development. My passions are entrepreneurship, pathfinding research, and problem-solving in my community, yet my goal is always to learn.

## EDUCATION

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**University of California, Berkeley** | Bachelor of Arts in Computer Science

Expected Graduation: 2024

GPA: 3.9/4.0

## EXPERIENCE

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**Software Development Intern, National IT**

March 2021 - Present

Federal Reserve bank | Richmond, VA

**Backend Developer**

Nov. 2020 - Present

DealEngine | San Francisco, CA

- Led development of Flask REST API holding core technology for young startup.
- Designed and integrated scalable authentication system for microservice using principles of OAuth.
- Working with career professionals raised key questions directing companies value proposition, technical goals, and focus.

**Founder**

April 2020 – Nov. 2020

Skipt | Vancouver, Canada

- Managed small development team to create platform helping businesses handle schedules and lines due to COVID-19.
- Led development of two-sided Flutter app and serverless REST API crucial to delivering value offering.

## PROJECTS

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**Pathfinding Research (Python/Java)**

August 2018 – March 2020

- Alongside Dr. S. Gopalakrishnan, Professor at UBC, created shortest path algorithm that considers agent's history when calculating travel times/costs. Implemented algorithm using Java and completed proof showing algorithms optimality.
- Designed novel MAPF algorithm building on past cooperative pathfinding algorithms with alternate collision prevention.

**Groupplus (Full-Stack)**

Oct. 2018 – Nov. 2019

- Developed team management website for sports teams allowing for increased player-coach interaction off the field.
- Utilised a wide range of technologies including JavaScript, CSS, HTML, and Bootstrap on the front end, Node.js and PostgreSQL on the back end, and AWS EC2, AWS RDS, and AWS S3 for hosting.

**PictureStory (iOS App)**

August 2018 – Dec. 2019

- Developed iOS app using Swift that allows users to create video from daily photos.
- Created algorithm that uses AI to track contours in users faces enabling automatic face alignment and seamless video creation, an innovation over all competing iOS apps.

**Intelligent Group Maker (Desktop Application)**

Sep. 2017 – Dec. 2017

- Developed intelligent group creation software that allows for advanced customization of the group making process.

**WPGA Schedule App (iOS App)**

Feb. 2017 – July. 2017

- Developed school's scheduling phone application that is currently used more than 60,000 times a month.

## SKILLS

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Java, JavaFX | Swift | Python | Node.js, HTML, CSS, JavaScript, Bootstrap | MongoDB, Redis, SQL/PostgreSQL | AWS (EC2, S3, and RDS) | Flutter, Dart | UML, GIT, Linux

## SUPPLEMENTAL

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Clubs: *Full Stack Web Development Curriculum Officer*, PlexTech – Berkeley

Hackathons: 1<sup>st</sup> place - Federal Reserve Bank challenge, 2<sup>nd</sup> place - Altria intelligent agent challenge (RAM Hacks 2020)