

# 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, computer science research, and problem-solving in my community, yet my goal is always to learn.

## EDUCATION

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**University of California, Berkeley** | BA in Computer Science and Applied Math Expected Graduation: Spring 2024  
GPA: 3.92/4.0

## EXPERIENCE

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**Incoming SWE Intern** May. 2022 – Aug. 2022  
Salesforce | San Francisco, CA

**Smart Grid Research** Sep. 2021 – Present  
RAISE Lab | Berkeley, CA

- Created new energy demanding agent for RL model training expanding existing demand simulation capabilities by adding the option to dynamically create unique agents with highly configurable and complex interactions
- Built data models supporting prediction of localized individual energy demand using pandas and NumPy

**Backend Developer** Nov. 2020 – Nov. 2021  
DealEngine | Redwood City, CA

- Led development of Flask REST API to handle data aggregation tasks for production system.
- Designed and integrated scalable authentication system to securely provide high-priority services for end-users.

**Software Development Intern, National IT Jira Team** March 2021 – August 2021  
Federal Reserve Bank | Richmond, VA

- Led automation of business-critical tasks including data migration and project creation affecting 6000+ employees.
- Using Groovy and the Jira API conducted large-scale data collection and aggregation to support 1000+ employees.

**Founder** April 2020 – Nov. 2020  
Skipt | Vancouver, Canada

- Managed small team to create platform helping businesses handle schedules and lines due to COVID-19.
- Developed map-based cross-platform Flutter app and serverless REST API to support mobile app and React site.

## PROJECTS

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**PictureStory (iOS App)** August 2018 – Sep. 2021

- 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.

**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 of algorithm's optimality.

**Grouplus (Full-Stack)** Oct. 2018 – Nov. 2019

- Developed team management website for sports teams allowing for increased player-coach interaction off the field.
- Learned front-end: HTML, JS, and Bootstrap; back-end: Node.js and PostgreSQL; and hosting: AWS EC2/RDS/S3

**WPGA Schedule App (iOS App)** Feb. 2017 – July. 2017

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

## SKILLS

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Java, JavaFX, Groovy | Swift | Python, pandas, NumPy, TensorFlow | Node.js, HTML, CSS, JavaScript, Bootstrap | MongoDB, Redis, SQL/PostgreSQL | AWS (EC2, S3, and RDS) | Flutter, Dart | UML, Git, Regex, Linux | Scrum

## SUPPLEMENTAL

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Clubs: *Full Stack Web Development Curriculum Officer* PlexTech – Berkeley, *Project Member E@B* – Berkeley

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