

# Joshua Lorincz

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## 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

*Relevant Math Courses:* Linear Algebra (Math 54, Math 110), Discrete Math (CS 70), Multivariable Calculus (Math 53), Real Analysis (Math 104), Abstract Algebra (Math 113) (in progress)

*Relevant CS Courses:* Operating Systems (Highschool Cross Enroll), Data Structures (CS 61A, CS 61B), Designing Information Devices (EECS 16B), Efficient Algorithms and Intractable Problems (CS 170), Computer Architecture (CS 61C) (in progress)

## EXPERIENCE

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**Undergraduate Student Researcher** Oct. 2021 – Present

RAISE Lab | Berkeley, CA

- First author of academic paper on using emulations of electric grids to pre-train RL agents for price setting, led construction of experiments as well as paper writing.
- Built data models supporting prediction of localized individual energy demand using pandas and NumPy.

**Software Engineering Intern**

May. 2022 – Aug. 2022

Salesforce | San Francisco, CA

- Created interactive dashboard generation tool allowing for the aggregation and visualization of business-critical data.
- Worked with a team to design and build a new data pipeline utilizing pydantic for modeling and validation.

**Backend Developer**

Nov. 2020 – Nov. 2021

DealEngine | Redwood City, CA

- Developed Flask REST API to handle data pipeline and 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 tracking contours in users faces enabling automatic face alignment for video creation.

**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 80,000 times a month.

## SKILLS

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

## 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)