

# PATRICK YIN

[patrickhaoy@berkeley.edu](mailto:patrickhaoy@berkeley.edu) ◇ [patrickyin.me](http://patrickyin.me) ◇ [linkedin.com/in/patrickhaoy](https://linkedin.com/in/patrickhaoy) ◇ [github.com/patrickhaoy](https://github.com/patrickhaoy)

## EDUCATION

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**University of California, Berkeley** — B.A. Computer Science

August 2019 - Present

- 4.0 GPA (*All Classes Taken for Letter Grade*)
- Regents' and Chancellor's Scholar — Merit-based scholarship for the top 2% of undergraduates at UC Berkeley

## EXPERIENCE

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**UIPath** — Software Engineer Intern

June 2021 - Present

- Established and managed Snowflake and SQLServer connections to capture insights data from UiPath bots
- Created and deployed Kubernetes jobs which call Looker API to authenticate users and manage client dashboards
- Tech Stack: Docker, Kubernetes, C#, .NET Core, Snowflake, SQLServer, Azure, Visual Studio, Python, Shell

**Berkeley AI Research** — Undergraduate Researcher

Jul 2020 - Present

- Working with Prof. Sergey Levine and Justin Fu on applying reinforcement learning to autonomous driving
- Leveraging offline Soft Actor-Critic and Conservative Q-Learning RL algorithms and using the CARLA simulator

## PROJECTS

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### Lucent

- Developed a web application that allows users to create automatable workflows for data exploration/processing
- Underwent rapid product iteration by reaching out and pitching to employees from CROs, Gilead, and Oracle
- Tech Stack: MERN Stack, Dagster, Flask, Pandas, Plotly, TypeScript, HTML/CSS, Redux, Python

### Phyzmo

- Constructed a cross-platform application tracking moving objects and creating visuals based on recorded data for students in physics labs—published to Apple Store
- Tech Stack: GCP Vision API, GCP Cloud Functions, GCP Storage, OpenCV, Firebase, Python, Java, Swift

### Absent

- Launched an iOS app coaching non-native speakers to improve their accent by analyzing their accent through voice recordings and providing feedback using word-level confidence analysis
- Tech Stack: GCP Speech-to-Text API, GCP Cloud Functions, GCP Storage, Firebase, Python, Swift

### FeeSplitter

- Invented a web application tracking shared expenses and balances between roommates, friends, and family
- Tech Stack: Javascript (Node.JS, Express.JS, React.JS), HerokuApp Deployment, HTML, CSS, SQL

## COURSEWORK

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**CS** Algorithms, Computer Architecture, Data Structures, Circuits and Signals

**ML** Machine Learning, Deep Learning, Artificial Intelligence, Convex Optimization, Stochastic Processes

**Math** Probability, Discrete Math, Linear Algebra, Differential Equations, Multivariable Calculus

## SKILLS AND INTERESTS

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**Awards** Outstanding CS61A Project Award (2020), USA Computing Olympiad Gold Division (2019), National Merit Scholar (2019)

**Languages** Python, C, Java, JavaScript/TypeScript, Swift, HTML/CSS, LaTeX, C#, Shell

**Frameworks/Tools** PyTorch, Tensorflow, Docker, Kubernetes, .NET Core, React, SQL/Snowflake, Azure, Git

**Interests** playing guitar, chess, running, basketball, lofi, 3D printing, AR, learning Mandarin