

# PATRICK YIN

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## 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

- Developed Snowflake/SQLServer connections and queries using C# and .NET Core to capture data from bots
- Created and deployed Kubernetes jobs calling Looker API to authenticate users and manage client dashboards
- Migrated Docker containers to Red Hat UBI and established Powershell/Bash tests validated with Azure DevOps

**Berkeley AI Research** — Undergraduate Researcher

July 2020 - Present

- Working with Prof. Sergey Levine on offline reinforcement learning in self-driving and lifelong robotic learning
- 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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<b>CS</b>	Databases, Algorithms, Computer Architecture, Data Structures, Parallel Programming, DeFi, Circuits
<b>ML</b>	Machine Learning, Deep Learning, Artificial Intelligence, Convex Optimization, Stochastic Processes
<b>Math</b>	Probability, Discrete Math, Linear Algebra, Differential Equations, Multivariable Calculus

## SKILLS AND INTERESTS

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<b>Awards</b>	Outstanding CS61A Project Award (2020), USA Computing Olympiad Gold Division (2019), National Merit Scholar (2019)
<b>Languages</b>	Python, C, Java, JavaScript/TypeScript, Swift, HTML/CSS, LaTeX, C#, Bash, Powershell
<b>Frameworks/Tools</b>	PyTorch, Tensorflow, Docker, Kubernetes, .NET Core, React, SQL/Snowflake, Azure, Git
<b>Interests</b>	reading, podcasts, chess, running, basketball, lofi, 3D printing, AR, guitar, Mandarin