PATRICK YIN

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EDUCATION

University of California, Berkeley — B.A. Computer Science August 2019 - Present

- 4.0 GPA
- Regents' and Chancellor's Scholar — Merit-based scholarship for the top 2% of undergraduates at UC Berkeley

EXPERIENCE

Ambi Robotics — Machine Learning / Computer Vision Engineer Intern January 2022 - Present

- Exploring methods to improve the computer vision system that powers AmbiSort in order to increase throughput.

Berkeley AI Research — Undergraduate Researcher July 2020 - Present

- Working under the supervision of Prof. Sergey Levine on reset-free robotic learning, planning, and self-supervised reinforcement learning. Previously worked on applying offline reinforcement learning in autonomous driving.

UIPath — Software Engineer Intern June 2021 - August 2021

- 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

PROJECTS

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

COURSEWORK

CS	Databases, Algorithms, Computer Architecture, Data Structures, Parallel Programming, Circuits
ML	Machine Learning, Deep Learning, Artificial Intelligence, Convex Optimization, Stochastic Processes
Math	Probability, Discrete Math, Linear Algebra, Differential Equations, Multivariable Calculus

SKILLS AND INTERESTS

Awards	Outstanding CS61A Project Award (2020), USA Computing Olympiad Gold Division (2019), National Merit Scholar (2019)
Languages	Python, C/C++, Java, JavaScript/TypeScript, Swift, HTML/CSS, SQL, Bash, Powershell
Frameworks/Tools	PyTorch, Tensorflow, GCP/AWS/Azure, CUDA, OpenMP, Docker, Kubernetes, React, Git
Interests	reading, podcasts, chess, running, basketball, lofi, 3D printing, AR, guitar, Mandarin