# Atharva Patil

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## EDUCATION

**University of California, Berkeley** — *BA, Computer Science and Statistics (Intended)*     AUG 2019 - MAY 2022 (EXPECTED)
- **GPA:** 3.8, **Major GPA:** 3.9
- **Relevant Coursework:** CS 61A - Structure and Interpretation of Computer Programs, CS 61B - Data Structures, Math 54 - Linear Algebra & Differential Equations

**India International School in Japan** — *93%, Indian Board Examinations*     APRIL 2014 - MARCH 2019

## SKILLS

- **Technical -** Python (Flask), Java, C++98, PHP, JavaScript (React Native), Flutter, HTML/CSS, SQL, Git, Scheme
- **Languages -** Native proficiency: English, Japanese, Marathi; Intermediate: Hindi
- **Work Authorization -** Authorized in the United States through CPT; Citizen of India and Permanent Resident of Japan

## WORK EXPERIENCE

**Department of Electrical Engineering and Computer Science, UC Berkeley** — *Research Intern*     FEB 2020 - PRESENT
- Assisting Dr. Alexandre Bayen in a project to measure the adoption of 'smart-city' technologies by Californian government agencies in the security, mobility, and water sectors.
- Writing web scraping programs in Python using Scrapy to scrape government, news and private company websites, and conducting data cleaning/analysis using Numpy.
- Future tasks include developing web pages to visualize the findings of the study on map interfaces.

**Cross-Border Next, Inc.** — *Software Developer Intern* — *Tokyo, Japan*     JULY - AUG 2019
- Developed a web crawler using PhantomJS to daily scrape transaction records and store them in a MySQL database.
- Integrated the crawler with the company's CakePHP-based sales management system.
- Learned how to develop a simple content management system using the CakePHP framework.
- Obtained exposure to a Chinese work environment.

**Direct Marketing Agency K.K.** — *Software Developer Intern* — *Tokyo, Japan*     JUNE - JULY 2019
- Learned how to develop a linear regression model to calculate the probability of a customer making a purchase, and to deploy it as a Web API. The model was developed using Microsoft Azure's (GUI-based) Machine Learning Studio.
- Debugged the backend of a Japanese e-commerce website written in PHP (CodeIgniter framework).
- Obtained exposure to corporate work culture and office environment in Japan.

## PERSONAL PROJECTS

**LateNight** — *Late-night Restaurant Recommendation App* — *https://devpost.com/software/latenight*
- A late-night restaurant recommendation app that maps dining options based on food ratings and neighborhood safety.
- Food ratings are derived from Yelp's API and safety scores were calculated by analyzing thousands of SFPD crime records.
- iOS frontend made in React Native using Google Maps and backend developed in Python (Flask) along with an SQLite database.

**Pacifica** — *School Library Management System* — *https://github.com/patilatharva/pacifica*
- A library system developed for my high school to manage inventory and student records and to check in/out books.
- The system utilizes Open Library and Google Books API to fetch a book's information upon scanning the ISBN barcode.
- Backend written in PHP, frontend made using jQuery and Bootstrap and database configured as MySQL.

**Student Council Website** — *iisjstudentcouncil.com*
- A website for my high school's Student Council to handle event sign-ups, merchandise orders and student feedback.

- Collaborated with a friend to design the frontend using HTML, CSS and JavaScript and develop the backend using PHP.