

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.
- 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.
- 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 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 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.

RetainerByte — *Retainer Usage Tracking App* — <http://bit.ly/retainerByte>

- An app created for Dr. Sneha Oberoi (University of California, San Francisco) to visualize data gathered by a smart retainer.
- The app allows patients to track their retainer usage and helps doctors better understand their patient's habits.
- Developed for iOS in Swift using Apple CareKit and integrated with Google Firestore to save real-time data on the cloud.
- Won 2nd place in the iHackHealth hackathon hosted by UC San Francisco and UC Berkeley.