

# Adithya Paramasivam

SOFTWARE ENGINEERING INTERN

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## Education

### University of California, Berkeley

Present - May 2022

BACHELOR OF ARTS, COMPUTER SCIENCE AND ECONOMICS · 4.0/4.0

Berkeley, CA

- Course Work: Data Structures (**Java**), Structure and Interpretation of Computer Programs (**Python, Lisp, SQL**), Introduction to Probability and Statistics (**R**), Designing Information Devices and Systems I (**Python, Jupyter Notebook**), Discrete Math
- Organizations: Free Ventures, Open Computing Facility

### High Technology HS

2015 - June 2019

HIGH SCHOOL DEGREE · 3.8/4.0

Lincroft, NJ

- Organizations: VEX Robotics Team (Captain), Finance Club (VP), Technology Student Association (Treasurer), Varsity Tennis (Player), Robotics & Coding Club (Council Member), Mathworks Modeling Challenge (National Finalist), National Merit Scholarship (Winner)

## Experience

### Commvault Systems, Inc.

June - August 2019

SOFTWARE ENGINEERING INTERN

Tinton Falls, NJ

- Built project currently used in production on **Commvault Engineering Github** (<http://bit.ly/cvpysdk>).
- Developed **Python SDK** to simplify **Commvault's REST APIs** and perform CommCell Console operations from the command line.
- Created tutorial for Commvault's Virtual Server Protection Package detailing installation, backup and restore of guest files.

### Rabadan Lab, Columbia U.

June - August 2018

DATA/ML INTERN

New York, NY

- Link: <https://www.biorxiv.org/content/10.1101/479824v1.full>.
- Employed the **artificial neural network NN-align** (<https://tinyurl.com/nn-alignment>) to identify MHC class II binding core and affinity.
- Utilized **R and Python (w/ pandas)** to parse genomic high-throughput sequencing data to draw conclusions and create data visualizations.
- Explored role of the MHC pathway in immune evasion with data visualization tools, including **matplotlib, seaborn, plotly, and ggplot2**.

### Berkeley Skydeck

February - May 2020

BUSINESS DEVELOPMENT INTERN

Berkeley, CA

- Built **Selenium web scraper** to collect contact information for potential sponsors and resource partners.
- Developing a complementary page on SkyDeck's website, featuring resource from the accelerator's various partners and sponsors.
- Collaborating with industry partners to equip startups with financial and strategic resources.

## Projects

### Supreme Checkout App

June - July 2019

AUTOMATION DEVELOPER

- Used **axios, requests libraries and end-to-end testing framework PuppeteerJS** to automate checkout on Supreme's online store.
- Circumvented common bot recognition techniques used by Chrome and ecommerce websites (**CSRF tokens, reCAPTCHA, pooky.js**).
- Utilized callbacks and async/await to run **asynchronous, single-threaded network requests** and purchase multiple items while beating out professional re-sellers and competing back-end based bots.

### Student LoanCalc

March - May 2019

FULL-STACK DEVELOPER

- Built a dynamic website to detail federal and private loan dependencies and repayment options for undergraduate students.
- Implemented **Bootstrap framework** alongside HTML/CSS to add live search and custom form functionality.
- Utilized **SQLite database alongside Flask web framework** to connect server-side calculations to web interface.
- Resolving bugs related to log in flow, user experience, and core location by leveraging strengths in debugging and unit testing.

## Skills and Interests

**Programming** Python, Java, Node.js, Angular.js, React.js, JavaScript, HTML/CSS, SQL, R, Lisp

**Technologies** Heroku, AWS Elastic Beanstalk, Bootstrap, PuppeteerJS, Pandas, Flask, Electron.js