

# Brandon Mitchell

brandontmitchell.github.io/website

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## EDUCATION

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- **Claremont McKenna College** Claremont, CA  
*Bachelor of Arts in Computer Science and Applied Mathematics* *Sep 2017 – May 2021*
  - **Relevant Coursework:** Data Structures and Advanced Programming (IP), OOP, Discrete Mathematics & Functional Programming, Language Theory & Finite Automata (IP), Linear Algebra, Probability (IP), Calculus III, Differential Equations

## SKILLS

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- **Languages:** Python, Java, HTML, CSS, Javascript, SQL, OCaml, PHP,  $\text{\LaTeX}$
- **Technologies:** React.js, Flask, PostgreSQL, Sqlite3, Git, Docker, Balsamiq
- **Awards & Campus Involvement:** PennApps XVIII Hackathon (Top 50 placement), 5C Hackathon 1<sup>st</sup> place, NCAA DIII Varsity Baseball Captain, CMC Devs President, The CMC Forum Web Manager, Residential Technology Assistant, Dorm President

## EXPERIENCE

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- **Feasible, Inc.** Emeryville, CA  
*Software Engineer Intern* *Jun 2019 - Aug 2019*
  - Designed and implemented a new database schema in PostgreSQL for the entire software system, increasing queries and data pipe-lining speeds by nearly 10% while preserving usability and clarity
  - Created a full-stack data pushing tool using React.js, Flask, and SQLite with Object-Relational Mapping (ORM), resulting in a 15% increase in data entries per push while maintaining scalability and security
  - Developed a React.js data cleaning application to work in tandem with lab testers and help reduce human error that led to wasted hours spent cleaning and reorganizing data
- **Coding With Kids** Seattle, WA  
*Lead Instructor* *May 2018 - Sep 2018*
  - Taught introductory programming concepts such as conditionals, variables, lists, refactoring, and debugging to up to 22 students per class through various projects
  - Modified the curriculum to handle adversity and adapt to different-leveled students across all classes

## PROJECTS

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- **Crypt0-R2** *July 2019 - Aug 2019*  
*<https://github.com/BrandontMitchell/crypto-b0t>*
  - Automated cryptocurrency exchange bot, analyzing market trends such as week average, previous executed price, and exchange slope to execute a buy or sell in a specific crypto coin at a specific price
  - Led creation of GUI with PyQt5, along with CCXT and the Binance API for price and trend line analysis with live plotting from Matplotlib, including highlighted maxes and minimums within the specified interval of days tracked
- **ReCharge** *Oct 2018*  
*<https://github.com/BrandontMitchell/reCharge>*
  - Web application built in HTML, CSS, JS, PHP and MySQL, used to help reduce electric vehicle users' range anxiety by creating an accessible, crowd-sourced visualization tool made of charging stations
  - Utilized the Google Maps and Google Places API to implement a multi-functioning UI that allowed users to search by range and popularity
- **Poet-Artist Classifier** *Jan 2018*  
*<https://github.com/BrandontMitchell/Bayesian-Classifier>*
  - A from-scratch Bayesian Classifier for text provenance, used to classify different text based on probabilities and predictive modeling to determine if the text correlates more toward Robert Frost or Kanye West