Brandon Mitchell

brandontmitchell.github.io/website

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EDUCATION

- **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, OOP, Discrete Mathematics & Functional Programming, Language Theory & Finite Automata, Linear Algebra, Probability, Calculus III, Differential Equations

SKILLS

- **Languages**: Python, Java, HTML, CSS, Javascript, SQL, OCaml, PHP, LaTeX

- **Technologies**: React.js, Flask, PostgreSQL, Sqlite3, Git, Docker, Balsamiq

- **Awards & Campus Involvement**: PennApps XVIII Hackathon (Top 50 placement), 5C Hackathon 1st place, NCAA DIII Varsity Baseball Captain, CMC Devs President, The CMC Forum Web Manager, Resdiential Technology Assistant

EXPERIENCE

- **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

- **Crypt0-R2**
  https://github.com/BrandontMitchell/crypto-b0t — *May 2018 - Sep 2018*
  - 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
  - Used PyQT5 for GUI creation, along with the CCXT module and the Binance API for price and trend line analysis with live plotting from Matplotlib

- **Poet-Artist Classifier**
  https://github.com/BrandontMitchell/Bayesian-Classifier — *May 2018 - Sep 2018*
  - 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

- **ReCharge**
  https://github.com/BrandontMitchell/reCharge — *May 2018 - Sep 2018*
  - 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